CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

BILOXI GREAT NORTHERN.—W. E. Covel, Ch. Engr., Biloxi, Miss., writes us that "owing to the condition of the money market it probably will be six months before contracts will be let for building this railroad." As noted on Oct. 31, we were officially advised that right-of-way had been partly secured and survey partly made for this proposed line. Company is open for propositions to build its line from parties that can use company's bonds. This railway will extend from Biloxi, Miss., north to a connection with the Mobile & Ohio R. R., probably at Bucatunna, Miss., a distance of 100 miles. W. M. Ducate is Pres.; J. B. Chinn, Vice-Pres.; W. Gorenflo, Treas., and I. Heidemheim, Secy.

CANADIAN PACIFIC.—The British Columbia Southern R. R. Co. has been granted an extension of five years to complete operations between Fort Steele and Golden, B. C. This is the C. P. R. branch of the Columbia & Southern R. R.

CENTRALIA EASTERN.—Contract for building this proposed road from a connection with the Northern Pacific Ry., 1½ miles, north of Centralia to the coal properties of the Mendota Coal & Coke Co. at Mendota, Wash., 15 miles, probably will be let early in the spring, it is stated. F. H. Ketcham is Pres., 622 Colman Bldg., Seattle, Wash., and B. H. Johnson is Ch. Engr., Centralia, Wash. Previously noted.

EL PASO & SOUTHWESTERN.—We are officially advised that nothing is being done in the way of construction on this railway. Noted on Jan. 2.

ESQUIMALT & NANAIMO (Canadian Pacific).—Contract for twelve miles of grading on the extension between Alberni and Nanoose, B. C., has been awarded to JOHN BRIGHT, of Vancouver, B. C. R. Marpole is Vice-Pres., Vancouver. Noted on Nov. 21.

This company has been granted an extension of four years for the completion of the Esquimalt & Nanaimo branch.

FLORIDA.—C. W. Brown, of Frost Proof, Fla., wants detailed information regarding equipment and construction of 20-mile tramway to handle logs and lumber and some freight.

FORT WILLIAM TERMINAL RY.—The Railway Commissioners of Canada have approved the plan, profile and book of reference showing location of the Fort William Terminal Railway Bridge Co.'s line in the city of Fort William, Ont.

GARDEN CITY, GULF & NORTHERN.—Construction may be started on this proposed road from Garden City, Kan., to St. Francis, Neb., 150 miles, in a few months. It is stated that preliminary survey has been completed and that subscription to stock has been made by Finney and Scott Counties, Kan. D. R. Menke is Pres., and S. H. Lyman is Ch. Engr., Garden City, Kan.

INDIAN CREEK VALLEY.—Charles F. Hood, Pres., Connellsville, Pa., advises us that all requirements have been provided regarding the extension of this road from Rogers Mills to Jones Mills, Pa., ten miles.

KANSAS & TEXAS.—Stock subscriptions are being raised by this company to secure funds for building the first link of its proposed road from the north line of Haskell County, Kan., over the located line of the Garden City & Southern Ry. to Santa Fe and thence to the southwest corner of the county. The total length of the proposed road is 700 miles. It will extend from Garden City, Kan., to Houston, Tex. J. L. Gilson is Pres., and T. O. James, Ch. Engr., both of Guymon, Okla. Noted fully on Jan. 2.

KETTLE FALLS & COLUMBIA RIVER.—A petition will be heard by the County Commissioners, Colville, Wash., on Feb. 15, presented by Dr. H. A. Baldwin and C. J. Webb, of Kettle Falls, for a franchise over highways of Stevens County between Kettle Falls and the mouth of the Spokane River for the purpose of constructing a railroad between the two points. Application states that it is proposed to organize the Kettle Falls & Columbia River Transportation Co., which will construct the line. The new railroad will traverse the Columbia River Valley for 45 miles and will be operated by steam at first.

KNOXVILLE, SEVIERVILLE & EASTERN.—W. A. Seymour, Ch. Engr., Knoxville, Tenn. (c|o W. J. Oliver), advises us that preliminary survey has been made for this railway. Construction will be moderately heavy work. Capital for building has been obtained. Right-of-way is partly secured. C. S. McManus is Pres., Middlesboro, Ky. This railway will run from Knoxville to Sevierville, Tenn., 26 miles. Noted on Nov. 21.

LARAMIE, HAHNS PEAK & PACIFIC.—R. D. Stewart, Gen. Supt. and Ch. Engr., Laramie, Wyo., states that an extension of this road from Centennial to Walden, Wyo., 60 miles, is proposed for this year. Previously noted.

LAWRENCE COUNTY R. R.—Eastern capitalists are interested in the construction of a new line, to be known as the Lawrence County R. R., which is to be built from Hoxie to Smithville, Ark., a distance of nearly 25 miles, reaching the rich zinc mines in the vicinity of Smithville and touching fertile plantations in Lawrence County, according to the Little Rock (Ark.) "Gazette." The cost of the road, which contractors claim they can have ready for business by next September, will be about $500,000. Maxwell Coffin, of Little Rock, is the promoter. The line will be standard gage. There will be a steel drawbridge over Black River, nine miles west of Hoxie, at Powhatan.

LEHIGH & NEW ENGLAND.—Bids have been asked by this company for 1,000 box cars, of 60,000 pounds capacity each, the estimated cost of which is $1,250,000. The Chicago "Evening Post" states that "much curiosity is felt concerning the bids that may be made for this contract. It is expected that there will be sharp competition, and possibly there may be shading of prices in the anxiety of manufacturers to secure the business. The impression prevails that they will consider it desirable to keep their plants running if possible, even if the profits on the work to be turned out be not as large as they have been for several years." R. G. Kenly is Gen. Supt., Pen Argyl, Pa.

MISSISSIPPI.—Eastman, Gardiner & Co., of Laurel, Miss., advise us that the report that they are "actively making preparations to begin work on a railroad from Mize, Smith County, on the Gulf & Ship Island Railroad, to Morton Scott County, on the Alabama & Vicksburg R. R., about 41 miles long," is an error. No work is contemplated.

NEBRASKA, KANSAS & SOUTHERN.—We are officially advised that contracts will be let by this company in about 60 days. It is planned to build from Superior, Neb., to Garden City, Kan., 267 miles. Surveys have been made from Garden City to Stockton, Kan., 167 miles. Right-of-way has been obtained for 50 miles. Capital is partly secured. J. C. Hopper is Pres., Ness City, Kan.; F. T. Burnham is Vice-Pres., Dwight Bldg., Kansas City, Mo.; B. L. Brown is Ch. Engr., Laclede Bldg., St. Louis, Mo. Noted on Jan. 2.

OKLAHOMA & GOLDEN CITY.—We are officially advised that all preliminaries have been arranged for beginning the construction of this railroad this spring. Financial arrangements have also been made for constructing and equipping this line which will run from Jefferson City, Mo., via Climax Springs, Golden City and Joplin, Mo., to Pawhuska, Okla., with a branch from Climax Springs to Springfield, Mo., a total distance of 265 miles. W. S. Pope is Pres., Jefferson City, Mo.; John A. Griesel is Gen. Mgr., Golden City, Mo.; E. M. Dempsey is Vice-Pres., Pawhuska, Okla., and O. E. Wheelock, Secy., Kansas City, Mo. Noted fully on Nov. 14.

OREGON.—Lasking Bros. and the Lamb Timber Co., of Montesano, Wash., are interested in plan to build a logging road from the Chehalis River at that place, up the Wynootche River to Black Creek. It will connect with the Northern Pacific Ry. and will open up a large section of new timber land which will add much to the logging industry at Montesano.

OREGON.—A meeting will be called in Canby, Ore., soon and working organization effected for furthering the proposition to build the proposed Canby-Molalla Railway. A corporation will be formed and stock subscription opened. Prominent mill men have pledged their aid, among them being D. L. Trullinger, of Union Mills, James Adkins of Mill Creek, Fred Shafer of Molalla and the Molalla Lumber Co. There will be but one bridge to build. Cost of enterprise will not be more than $100,000.

PACIFIC & EASTERN.—It is announced that Hunt Lewis, of Portland, Ore., and Edgar Hafer, Mgr. of the Iowa Box & Lumber Co., Medford, Ore., have purchased the P. & E. R. R., formerly known as the Medford & Crater Lake Ry. It now runs from Medford to Crater Lake Junction, Kolus, Agate, Table Rock and Eagle Point, twelve miles. It will be extended from the latter place to Butte Falls. Noted on Jan. 9.

PUGET SOUND & BAKER RIVER.—Incorporated in Washington by L. T. Dempsey and W. C. Butler, of Tacoma, Wash., to build a railway in Washington. Capital stock, $150,000.

ST. LOUIS, SPRINGFIELD & OKLAHOMA WESTERN.—We are officially advised that contract for building this railway has been let to W. A. CULLIN, Newark, N. J. This line will extend from Sallisaw, Okla., to Lawton, Okla., 250 miles. No surveys have been made or right-of-way secured. Capital has been obtained. C. Stocker is Pres., Stigler, Okla.

UNION CENTRAL.—Contracts will be let soon for building this railroad. As previously noted, W. J. Hogue, Pres., Dallas, Tex., announces that this company proposes to build a railway from Dallas, Tex., to New Orleans, La., 500 miles, the mileage in Texas being 225 miles and in Louisiana 275 miles. The route is by way of Palestine and Nacogdoches, Tex., and Pickering, La. There will be a branch from Wortham to Tyler, Tex., 125 miles, which has been surveyed for the entire distance and graded from

Wortham to the Trinity River, 20 miles. The main line is under survey from Dallas to the Louisiana state line. James A. Lucas is Secy.-Treas., Edgewood, Tex.

YELLOWSTONE PARK.—This company, which now operates a railway from Bridger to Bear Creek, Mont., 22 miles, will commence construction on its proposed extension to Cooke City, which adjoins Yellowstone Park, a distance of 100 miles, as soon as weather conditions will permit. F. A. Hall is Pres., Belfry, Mont.

ELECTRIC RAILWAYS.

EAST WINDSOR, CONN.—Preliminary steps toward financing the construction of the Windsorville & East Hartford St. Ry. Co. have been taken. The incorporators have opened books for subscriptions and state that the prospects of raising the needed capital are fairly good. The charter gives the company the right to operate in the towns of East Windsor, South Windsor and East Hartford. The company has a capital stock of $500,000.

MONONGAHELA, PA.—The application of the Monongahela & Carroll St. Ry. Co. for a perpetual franchise in Monongahela has been denied by the City Council. It is stated that an ordinance for a limited franchise will be presented. The company proposes to build an electric line to Bentleyville and later to Washington, Pa. Noted fully on Jan. 9.

WASHINGTON, D. C.—The Washington Spa Springs & Gretta Electric Ry. Co. has secured a franchise within the District of Columbia for its line from H St., Washington, along the Bladensburg road to the District line, whence it will run to Bladensburg and Spa Springs, Md. It is stated that construction may begin at once. A power house is to be erected at Beverly, Md. B. J. Stephens of Hyattsville, Md., is Pres.; Charles D. Eldridge of Myersville, Md., is Engr. Noted on Dec. 12.

WASHINGTON, D. C.—The Senate District Committee has reported favorably on a bill authorizing the Washington Railway & Electric Co., the Capital Traction Co., the City & Suburban Railway and the Anacostia & Potomac River Railroad to extend their tracks to the new Union Station. Construction is to begin within 30 days and be completed within twelve months from the date of the passage of the act. Amendments providing for universal transfers and a franchise tax were defeated. Noted on Dec. 19.

CHRISTIANSBURG, VA.—The Vaughan Construction Co., which holds a charter for an electric railway between Christiansburg and Cambria, plans to begin work on the line in the spring. It will be about 2¼ miles long.

SUMMERVILLE, S. C.—The Town Council of Summerville has granted the right-of-way through certain streets to the Charleston & Summerville Elec. Ry. Co. for the operation of its system. The grant is for 99 years, subject to various restrictions. Noted on Jan. 19.

ACWORTH, GA.—Austin Granville of Acworth, has petitioned the City Council for a franchise for an electric railway through the streets of Acworth. It is proposed to run the electric railway from Acworth to Kennesaw, Lena, Noonday, Elizabeth, thence to Marietta, and north to connect with Allatoona, Bartow, Hugo, Emerson to Cartersville.

ATLANTA, GA.—M. Mason, Vice-Pres. and Gen. Mgr. of the Atlanta & Carolina Ry. Co., advises us that although contract has been awarded, construction will not start until spring. All material, tools, etc., will be furnished by the contractors, excepting ties, rails and equipment. Amount of equipment to be purchased has not been decided upon yet. As noted on Dec. 5, the contract for constructing this railway has been awarded to COOK & LAURIE, Montgomery, Ala. It will extend from Atlanta to Augusta, Ga., via Monroe, Athens and Washington, 170 miles. James W. English, Fourth National Bank Bldg., Atlanta, is Pres. Surveys are made, right-of-way obtained and capital secured. Noted on Nov. 7 and Jan. 9.

NEW ORLEANS, LA.—The New Orleans & Seashore Air Line Ry. Co. has published its charter and proposes to build a standard-gage electric railway from New Orleans to Grand Isle, La., about 50 miles, besides branches. The directors are Arsene Perrilliat, 2714 St. Charles St.; James W. Porch, 1227 Webster St.; William F. Pinckard, Cotton Exchange; John H. Menge, Jr., and Honore Dugas, of New Orleans. Others interested are R. McWilliams, W. S. Fell and L. H. Marrero, Jr. J. W. T. Stephens is Ch. Engr., 303 Cotton Exchange Bldg. Noted on Dec. 5.

ASHTABULA, OHIO.—The Ashtabula Electric Street R. R. Co. has been organized by C. G. Nelson, J. E. Anderson, J. V. Paulson and others of Ashtabula, to build an electric line about five miles long from Ashtabula to Ashtabula Harbor. A small power-house may be built.

BLOOMINGTON, IND.—The City Council has granted a franchise to the Grand Central Traction Co., which proposes to build from Indianapolis to Evansville, Ind. As previously noted, surveys have been finished by Will Duncan, Ch. Engr. The estimated length of the proposed railway is 250 miles. It will be built from Indianapolis to Evansville with a branch from Bloomington to Terre Haute. The company will soon be in the market for all kinds of materials necessary for building an electric railway. The officers are: W. D. Whitney, Pres.; O. W. Whitney, Vice-Pres.; O. W. Blickenstaff, Gen. Mgr.; Will Duncan, Ch. Engr.; D. H. Morgan, Secy.; N. P. Carter, Treas. General offices are 618 Terminal Bldg., Indianapolis.

CHICAGO, ILL.—Receivers were appointed on Jan. 27 for the Chicago & Milwaukee Electric Railroad Co. Judge Grosscup in the United States Court, Chicago, has made the appointments on application of interests which are said to be favorable to the present management of the company. A receiver was also named for A. C. Frost & Co., a banking firm which has financed the road's bond issues. Mr. Frost is Pres. of the railroad company. The chief liability of the company is said to be a bonded indebtedness of $15,000,000. Floating debts and other liabilities are said to aggregate about one-third as much more. The receivers named for the railroad company are W. I. Osborne, Vice-Pres. of the Central Trust Co., Chicago; D. B. Hanna, Vice-Pres. of the Canadian Northern Railroad Co., Toronto; A. C. Frost, Pres. of the Chicago & Milwaukee Electric Railroad Co., Chicago. George M. Seward of Chicago was named as receiver for A. C. Frost & Co.

EMMETSBURG, IOWA.—It is officially announced that the Spirit Lake, Emmetsburg & Fort Dodge Ry. Co. expects to begin construction work soon. Practically all of the right-of-way has been secured. The railway, which it is estimated will be 110 miles long, will connect and run through the following cities and towns: Fort Dodge, Clare, Lizard, Pocahontas, Havelock, Mallard, Emmetsburg, Spirit Lake, Graettinger, Terril and Milford. The company will operate an amusement park seven miles north of Fort Dodge, and also will furnish current from its own power station to towns along the route. The repair shops are to be located at Emmetsburg. The officers of this company are as follows: T. F. McCartan, Pocahontas, Pres.; M. H. Miller, Fort Dodge, Vice-Pres. and Acting Gen. Mgr.; P. O. Refsell, Emmetsburg, Secy., and D. O. Johnson, Emmetsburg, Treas. The Spirit Lake, Emmetsburg & Fort Dodge Railway was incorporated on July 11, 1907. Capital stock, $500,000. Noted fully on Sept. 19; also on Nov. 14.

DALLAS, TEX.—The Texas Traction Co., which is now completing its line from Sherman to Dallas, Tex., has applied for a 20-year franchise for an entrance into Dallas. With the application the company filed an agreement previously made with the Dallas Consolidated Electric Street Railroad and the Metropolitan Street Railway companies for the use of their tracks. Noted on Jan. 9.

LA JUNTA, COLO.—We are officially advised that financial arrangements are being made by the Arkansas Valley Traction Co. to build an electric railway from La Junta to Rocky Ford, a distance of eleven miles. Surveys are made and right-of-way 75% secured. Company may issue $100,000 of 6% bonds for construction of the proposed line. No contracts will be awarded until funds are secured. John E. Gauger is Pres., Rocky Ford. F. T. Lewis is Ch. Engr., La Junta. Construction work will be light. There will be two bridges. Noted on Oct. 3, Oct. 17 and Dec. 12.

CLARKSTON, WASH.—Frank McKean is Engr. for proposed electric railway to connect Anatone, Asotin, Vineland, Clarkston and Lewiston. It will be about 40 miles long.

PORTLAND, ORE.—The United Railways Co. has applied to the County Commissioners for a franchise from the city limits of Portland south on the Macadam road to the Clackamas County line. It is proposed to extend the line to Hillsboro and Forest Grove, Ore. J. W. Gardiner is Vice-Pres.

QUINCY, CAL.—We are officially informed that it is proposed to build a steam or electric railway from Quincy easterly to Hartwell Ranch on line of Western Pacific Ry., three miles. J. O. Moncur is interested. Except to secure capital no steps have been taken.

MILNER, IDAHO.—D. C. MacWatters, Pres. of the Milner & North Side Elec. R. R. Co., advises us that date for letting contracts for building this proposed electric line to Wendell and Gooding has not been decided. We were officially informed that the proposed line "will run from Milner in a northwesterly direction through Jerome and Wendell to the Oregon Short Line at a point near Gooding, about 65 miles long. Surveys are made and capital and right-of-way are secured. A few small grading contracts have been let. The railroad will be built through a large irrigation project on north side of Snake River. A bonus per acre has been allowed by the State of Idaho to this company for building the line." D. C. MacWatters, Milner, is Pres.; P. S. A. Bickel, Milner, is Ch. Engr. The incorporators are: Fentress Hill, D. C. MacWatters, Herbert R. Grant, Henry K. Belmont and C. M. Hapgood, of Milner.

KENORA, ONT.—The ratepayers have voted in favor of building a municipal street railway system here. D. H. Currie, City Clk.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

SANFORD, ME.—The Atlantic Shore Line Ry. Co. will soon install an electric lighting system for lighting the streets and residences in Kittery, Eliot and Sanford. Electrical energy for operating the systems will be supplied from the company's power houses at Kittery Point, Dover and Sanford. W. G. Meloon, Portsmouth, Me., is Gen. Mgr. and Purchasing Agt.

LIMA, N. Y.—We are officially advised that the Lima & Honeoye Electric Light & R. R. Co., Lima, N. Y., will erect a power station next season, to be located in the natural gas fields, four miles south of Lima. The company will start with a capacity of 30,000 HP., using units of about 3,000 HP. E. D. Watkins is Mgr.

WATERLOO, N. Y.—It is stated that the Village Board is considering the question of extending and improving the street lighting system and substituting an all-night service in place of the present service, which extends only till midnight on a moonlight schedule. The Geneva-Seneca Electric Co. has submitted a proposition to the board as follows: The company offers to furnish 26 enclosed arc lamps for $70 each per year, and 117 incandescent lamps of 30 c. p. at $18 a lamp per year, making the cost of the street lighting $4,086 a year, as against the present cost of $3,512. The company agrees to furnish one arc lamp and 30 incandescent lamps free of charge. All the lamps, apparatus and most of the wiring will be new. The contract is to be for a term of five years and provides for an all-night and every night service. F. C. Blintyon, New York, is Mgr.; J. E. Sliney, Geneva, N. Y., is Ch. Engr.

NEW YORK, N. Y.—We are advised by Ford, Bacon & Davis, Consult. Engrs., 115 Broadway, that A. PASQUINI, 1123 Broadway, has contract to construct an extension to the power house of the Coney Island & Brooklyn R. R. Co., at Main St. and Gowanus Canal, Brooklyn. The contract for electrical equipment has been let to the GENERAL ELECTRIC CO., Schenectady, N. Y., and for boilers to BABCOCK & WILCOX, CO., 85 Liberty St., New York. Plans have been completed for two sub-stations. They are to be two stories in height and of brick and steel construction. One will be built at Kings Highway and Coney Island Ave., and the other in the west side of Sanford St., about 100 ft. north of De Kalb Ave. J. L. Heins, DeKalb and Franklin Aves., Brooklyn, is Gen. Mgr. C. I. & B. R. R. Co.

NEWARK, N. Y.—Bids are asked by Charles M. Louth, Supt., until 10 a. m., Feb. 4, for one electric dynamo and engine for the New York State Custodial Asylum at Newark, N. Y. Franklin B. Ware is State Arch.

*WEST POINT, N. Y.—Bids are asked until noon, Feb. 20, the Quartermaster, West Point, for furnishing and installing electric lighting fixtures in Gun Shed, Artillery Stable, Cavalry Stable, Artillery Barracks and Cavalry Barracks at West Point.

PITTSBURG, PA.—The contract for lighting the city with arc lamps has been awarded to the ALLEGHENY COUNTY LIGHT CO. The contract calls for $90 a lamp per year where underground circuits are used and $72 a lamp with overhead wires. R. L. Orr is Gen. Supt., Pittsburg.

MARSHALSEA (Pittsburg post-office), PA.—George W. Guthrie, Mayor of Pittsburg, has announced that the plans will be changed for the proposed power plant at the city poor farm at Marshalsea and the contract readvertised.

ROYER, PA.—We are officially advised that bids probably will be received in March for installing a power plant for the Morrison's Cove Electric Light & Power Co. The plant will be operated by water, and will furnish lighting to Martinsburg and Williamsburg, Pa. Power probably will be supplied to crushers at Royer and vicinity. Complete equipment and about twelve miles of transmission lines will be required. There will be 25 arc lamps and from 1,800 to 2,500 incandescent lamps of 16 c. p. Besides general equipment there will be twelve miles of line needed. Estimated cost, $45,000. Frank W. Moore, Box 557, Indiana, Pa., is Res. Engr.

WAYNESBORO, PA.—The Chambersburg, Greencastle & Waynesboro Street Ry. Co. will increase the equipment in the Waynesboro plant to provide electrical energy for the extension of the electric railway from Greencastle to Chambersburg. Joseph F. Geiser is Supt., and J. MacWolff is Gen. Mgr., Waynesboro.

DOVER, DEL.—T. F. Cooke, Supt. municipal electric lighting plant, advises us that it is intended to install a 90-KW. generator, to be connected, as one unit, to two 60-HP. Harrisburg high-speed engines, direct.

*WASHINGTON, D. C.—Bids are asked until noon, Feb. 15, by Elliott Woods, Supt. U. S. Capitol Bldgs. and Grounds, Washington, D. C., for the quantities of electric conduit, etc., required in connection with the electrical equipment of the Senate Office Building.

RICHMOND, VA.—The Virginia Passenger & Power Co. has let contract to JAMES LEFFEL & CO. for two 56-in. Sampson turbines to be direct connected to a 750-KW. Allis-Chalmers alternator. S. W. Huff, Richmond, Va., is Gen. Mgr.

SALISBURY, N. C.—The Salisbury & Spencer Ry. Co. is planning to construct a sub-station for which contracts will be placed during the next two months. Three 1,000-KW. transformers will be installed. A. W. Frund, Salisbury, is Gen Mgr.

AUGUSTA, GA.—Bids are asked until 3 p. m., Feb. 25, by the Commanding Officer, Augusta Arsenal, Augusta, for furnishing and delivering electric switchboard, motor-generator sets, motors, air compressor metal-working and woodworking machines, some with motor-drive, pneumatic hammer, electric and hand overhead cranes, fuel-oil furnaces, testing machine, etc.

COLUMBUS, MISS.—David L. Parsons, 1526 Third Ave., is making estimates and preparing plans for electric-lighting plant to be equipped with engines, boilers, pumps, heaters, dynamos, (100 to 300-KW., 3-phase machines, or 100 to 150-KW., direct connected D. C. 500-volt machines), transformers, switchboards and appurtenances, apparatus for general machine and repair shop, etc.

LECOMPTE, LA.—Bids will be received about March 1 for construction of the proposed electric light plant. Estimated cost, $10,000. B. Wood, New Orleans, La., is Engr.

NASHVILLE, TENN.—B. J. Hodge, Building Inspector, will prepare plans for erection of brick addition to power-house of municipal electric-light plant. The City Council is considering an appropriation of $100,000 for building the extension, installing new electrical machinery and employing architect.

LOUISVILLE, KY.—The Kentucky Electric Co., Seventh and Ormsby Sts., intends to erect a 2-story dynamo building to cost $25,000. Donald McDonald is Pres.; Lewis S. String is Ch. Engr.

WEST MILTON, OHIO.—It is proposed to erect a hydro-electric plant of about 200 HP. in the summer. A dam is to be built 400 ft. long, giving a head of from 14 to 16 ft. L. A. Pearson is interested.

MUNCIE, IND.—It is [illegible] will be asked for in a [illegible] Light & Power Co. for [illegible] of the reducing station [illegible] by an explosion. The [illegible] of brick.

MOUNT VERNON, IN[illegible] cil will receive bids for [illegible] for a period of ten year[illegible] electric lights. The sy[illegible] 2,000-c. p. arc lamps. A[illegible] mercial lighting for ele[illegible] the contract.

ROCKPORT, IND.—Th[illegible] granted a 10-year franch[illegible] Electric Light Co. to in[illegible] the streets.

PELLSTON, MICH.—W[illegible] vised that the Pellston [illegible] will let contracts in Mar[illegible] equipment: 20 miles of [illegible] voltage to be used in [illegible] miles of line now in oper[illegible] ternating current generat[illegible] to a water-wheel; cemen[illegible] iron sheet piling. The [illegible] the Escanaba River. Th[illegible] ft. in 20 rods. F. E. H[illegible]

MARINETTE, WIS.—It [illegible] velop power on the Pe[illegible] Marinette and transmit [illegible] Bay by cable to Sturgeon [illegible] tant, for use at a cem[illegible] Fetzer, Sturgeon Bay, W[illegible]

FREMONT, NEB.—The [illegible] ing the power station for [illegible] and electric light plant [illegible] to G. A. DAMERER, of [illegible] $22,500. Frank Hammond [illegible] lic Works.

BIG HORN, WYO.—Prepa[illegible] erection of the power dam [illegible] Power Co. across the Big Horn [illegible] Boysen are proceeding and [illegible] tion work will be in progre[illegible] time. The AMBURSEN HY[illegible] William L. Church, Pres., [illegible] Boston, Mass., which has [illegible] the dam, has agreed to complete it by June 1, 1908. The dam will back the Big Horn River for a distance of nearly eight miles and create a lake.

SPRINGDALE, ARK.—Springdale Electric Light & Power Co. will install electric-light plant. A franchise for construction and operation has been granted to M. C. & C. G. Martin, Boulevard Court N. E., Cleveland, Ohio. The building, 40 [illegible] ft., part brick, will be erected and necessary machinery installed, including a [illegible] HP. engine and a 100-HP. boiler. Cost about $8,500. Capacity of plant at start, 65 KW., direct current. It is to be in operation within eight months.

LITTLE ROCK, ARK.—The city contemplates erecting brick building and installing electric-light plant with capacity of 750 arc lights for street illumination. Present plant has capacity of about 350 arc lights. W. E. Lenon is Mayor.

HOPE, ARK.—The capacity of the water and light plant of Hope, Ark., is to be increased by the installation of an additional engine and dynamo, and a new power house is to be built, it is stated. The city has the engine on hand, but is not ready to purchase the dynamo. A new water-works system will also be built, probably within the next six months. Charles M. Richards is Supt.

HANDLEY, TEX.—The Northern Texas Traction Co. will resume work on improvements to the power plant here. It is estimated that about $150,000 will be expended. Stone & Webster, 147 Milk St., Boston, Mass., are Gen. Mgrs.; G. H. Clifford, Fort Worth, Tex., is Gen. Supt.

SILVER CITY, N. M.—The New Mexico Light, Heat & Power Co. will install additional machinery in its plant, including a 100-KW., 2,200-volt generator. The present building will be enlarged, and the changes in the plant will require the complete reconstruction of the transmission lines.

SAN BERNARDINO, CAL.—A project having for its purpose the development of water in the San Bernardino forest for electrical purposes is being planned by A. E. Poole. The Government has granted Mr. Poole a right-of-way 2½ miles in length, and his scene of operation is within the watershed of the San Jacinto Mountains. One of the series of power-plants arranged for is at Palm Springs, on the desert in Riverside County.

PRESCOTT, ARIZ.—Plans have been completed by the Arizona Power Co. for the construction of a hydro-electric plant on Fossill Creek Falls, 50 miles distant, to furnish electricity to various small towns and mines throughout the county. R. L. Masson is Electrical Engr.

CORNWALL, ONT.—Press reports state that the plant and holdings of the St. Lawrence Power Co. have been purchased by a syndicate, of which George C. Foster, of Montreal, Que., is Pres. and Man. Dir. Plans for additions and extensions to this plant, at a cost of more than $3,000,000 have been submitted to the International Waterways Commission.

PORT ARTHUR, ONT.—Smith, Kerry & Chace, Confederation Life Building, Toronto, Ont., are preparing plans for developing the water power on Dog Lake at Silver Falls, for the city of Port Arthur. As soon as estimates are completed a by-law will be submitted to the citizens to secure funds for the work. J. Antonisen is Corporation Engr.

WOODSTOCK, ONT.—We are advised by J. G. Archibald, Supt. Water and Light Committee, that the city intends to operate its lighting plant by power from Niagara, replacing steam power now used. The city will purchase new pumps and will extend power lines. Estimated cost, $7,000.

CAMPBELLFORD, ONT.—The ratepayers of Campbellford, Ont., have carried a by-law to build a $60,000 power plant at Middle Falls. The contract for constructing the dam has been let to BROWN & AYLMER, and BOGUE & BUCHANAN, of Peterboro, will erect the power-house.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

ELMWOOD, CONN.—The State Board of Railroad Commissioners has filed a decision on petition of the town of West Hartford, ordering the lowering of the railroad bridge on New [illegible] Ave. in the town of Elmwood, so as to give a clear passage of 40 ft. between abutments and a clear head room of [illegible]. The expense of the improvement will be borne in equal amounts by the town of West Hartford, the railroad company and the [illegible] railway company.

OSWEGO, N. Y.—The New York, Ontario & Western Ry. Co., C. E. Knickerbocker, Engr. M. W., Middletown, N. Y., will have two [illegible] bridges constructed here.

The New York Central & Hudson River R. R. Co. will have the railroad bridge across the Oswego River rebuilt. J. B. Hayden, New York City, is Engr. Bridges.

GLENS FALLS, N. Y.—The contract for the construction of a bridge over the Hudson River between Glens Falls and South Glens Falls has been awarded to the OWEGO BRIDGE CO., Owego, N. Y., at $10,000.

SYBERSVILLE, N. Y.—Bids are asked until noon, Feb. 11, by Samuel B. Rambo, Supt. Public Grounds and Buildings, for rebuilding the substructure and superstructure of the bridge across the Nescopeck Creek, near Sybersville, in Sugarloaf Township, Luzerne County.

MONESSEN, PA.—The U. S. Steel Corporation is planning to construct a steel railroad bridge over the Monongahela River, between the place and Donora. Estimated cost, $1,000,000.

DONORA, PA.—The County Commissioners of Washington and Westmoreland counties have awarded the contract for the construction of a bridge across the Monongahela River between this city and Webster to the TOLEDO-MASSILLON BRIDGE CO., Toledo, O., at $180,000. In addition to this amount, $17 per cu. yd. will be paid for concrete river piers and $16 per cu. yd. for shore piers of the same material. Contract price for pile driving will be $1 per lin. ft.

SCRANTON, PA.—THE SCRANTON IRON WORKS, Scranton, has been awarded the contract by the Pennsylvania Steel Co., for the ornamental work on the Pelham low bridge, to be constructed for the New York, New Haven & Hartford R. R. Co.

ATLANTA, GA.—We are officially advised that parties submitting competitive plans to the Commissioners of Roads and Revenues for the ferro-concrete bridge to be constructed over Peachtree Creek, in Fulton County, Atlanta, Ga., bids for contract for plans to be submitted Feb. 5, are requested to furnish with their plans, strain sheets, showing dimensions, unit stresses, factors of safety, loads to be carried, computed stresses, etc. Solomon-Norcross Co., Candler Bldg., Atlanta, Ga., are Engrs.-in-Charge. Clifford L. Anderson is Chn. Comrs. Noted Jan. 23.

GULFPORT, MISS.—Bids are asked until March 2 by the Board of County Supervisors for constructing a drawbridge near Morris's Ferry on new road across Tchoutacabouffa River. F. S. Hewes is Clk. Bd.

GRETNA, LA.—Bids are asked until Feb. 5 by M. A. Danenhauer, Secy. Police Jury, for repairing the Metairie bridge over Upper Protection Canal.

ALEXANDRIA, LA.—Bids are asked until Feb. 20 by Fred. Seip, Chmn. Bridge Com., for the construction of a steel span with pile trestle approach, over the Bayou Rapids. Ira W. Sylvester, Alexandria, is Consulting Engr.

BRISTOL, TENN.—The Norfolk & Western Ry. Co. and the Southern Ry. Co. contemplate the construction of a viaduct at the State St. crossing. J. E. Crawford, Roanoke, Va., is Bridge Engr., Norfolk & Western Ry. Co.

NEW CASTLE (Coshocton post-office), OHIO.—Plans for the construction of the Pittsburg, St. viaduct over Neshannock Creek will be prepared shortly.

CLEVELAND, OHIO.—Bids are asked until noon, Feb. 10, by the Board of Public Works for the complete construction of a bridge on Clark Ave., Southwest. A. R. Callow is Secy. Bd.

NEWARK, OHIO.—We are officially advised that bids are asked by the County Commissioners of Licking County until 1.30 p. m., Feb. 17, for the construction of three steel bridges of about 80-ft. span. E. S. Jackson is Asst. County Engr.

INDIANAPOLIS, IND.—The Virginia Ave. viaduct will be strengthened, plans for this improvement being under consideration by Blaine H. Miller, City Engr. Estimated cost, $5,500.

WARSAW, IND.—The CENTRAL STATES BRIDGE CO., 601 Beecher St., Indianapolis, has been awarded the contract by the Winona Interurban Ry. Co. for the construction of a bridge over the Pennsylvania railroad on the Warsaw and Peru division of the Winona Interurban Ry., at $26,000.

PEORIA, ILL.—Plans for the construction of a double-track, span steel bridge have been prepared by Stanley Millard, Ch. Engr., Peoria & Pekin Union Ry. Co. Estimated cost, $150,000.

HANOVER, ILL.—The contract for the construction of the bridge across Apple River, a few miles south of here, has been awarded to W. H. SHONS, Freeport, Ill., at $3,400.

CHICAGO, ILL.—Plans for the construction of a bridge, 243 ft. long between trunnions, and 60 ft. wide, across the Chicago River, running diagonally from the foot of Franklin St. on the south side to the junction of Kinzie and Orleans Sts. on the north side. Estimated cost, $400,000. John J. Hanberg is Comr. Pub. Wks.

CHICAGO, ILL.—Plans for a number of city bridges have been completed. Bids will soon be asked. John J. Hanberg is Comr. Pub. Wks.

MENASHA, WIS.—Plans for the construction of a bridge over Fox River at Washington St. have been submitted to the City Council by Frederick A. Little, Consulting Engr., of Fond du Lac, Wis.

BURLINGTON, IOWA.—The U. S. House of Representatives has passed a bill authorizing the construction of a bridge across the Mississippi River at Burlington.

COUNCIL BLUFFS, IOWA.—The U. S. House of Representatives has passed a bill authorizing that various bridges be constructed across the Missouri River here.

RED LAKE FALLS, MINN.—The NORTHWESTERN BRIDGE CO., Moorehead, Minn., has been awarded the contract for the construction of two steel bridges by the County Commissioners, Red Lake County, at $5,200.

ROSSVILLE, KAN.—The following bids have been received by the County Commissioners at Topeka, Kan., for constructing a steel bridge with concrete floor over Cross Creek at Rossville: Midland Bridge Co., Kansas City, Mo., $4,108; Leavenworth Bridge Co., Leavenworth, Kan., $3,705; Canton Bridge Co., Canton, Ohio, $3,890; Illinois Steel Bridge Co., Joliet, Ill., $3,907; Topeka Bridge & Iron Co., Topeka, Kan., $3,735.

ARMOUR, S. DAK.—We are officially advised that the IOWA BRIDGE CO., Des Moines, Iowa, was awarded the contract on Jan. 18 by Charles W. Nowlan, County Audr., for the construction of four steel bridges in Douglas County, at $3,905. P. Enniss is Deputy Audr.

DILLON, MONT.—C. G. SHELLY, Denver, Colo., was awarded the contract on Jan. 16 by the County Commissioners for the construction of two steel bridges across the Beaverhead River, one at the Sage Creek crossing, near Dell, and the other about a mile above Barret's Station, at $2,996.

BEEVILLE, TEX.—Bids are asked until Feb. 11 by the Commissioners Court of Bee County for the construction of an iron bridge over Paista Creek. W. W. Dodd is County Judge.

*ROSENBERG, TEX.—Bids are asked by the County Judge, Richmond, Tex., until 2 p. m., Feb. 17, for the delivery and erection of a steel highway bridge across the Brazos River, near Rosenberg. John W. Maxey, C. E., Houston, Tex., is Consulting Engr.

OKANOGAN, WASH.—The County Commissioners have decided to have a steel drawbridge constructed across the river here. Estimated cost, $10,000.

PASADENA, CAL.—Bids will soon be asked by the City Council for the construction of a steel bridge at Lind and Vista Sts. Estimated cost, $25,000. S. J. Van Orman is City Engr.

JUNCTION, UTAH.—Bids are asked until 2 p. m., Feb. 11, by the County Commissioners, Piute County, for the construction of a wooden bridge across the Sevier River, about three miles south of Junction, at Mitchell Crossing. Edwin E. Sprague is Clk. Comrs.

FREDERICTON, N. B.—Bids are asked until Feb. 10, by C. H. La Billois, Ch. Comr. Pub. Wks., for the construction of the Ryan Brook bridge over the Nasbwaak River.

BRANDON, MAN.—We are officially advised that the City Council has passed a final recommendation to have a reinforced concrete bridge constructed across the Assiniboine River here. The bridge will consist of three 90-ft. spans with necessary approaches. Estimated cost $80,000. W. H. Shillinglaw is City Engr. Noted Jan. 2.

WINNIPEG, MAN.—The Canadian Pacific Ry. Co. has decided to replace a number of the wooden bridges in Western Canada with steel structures during the present year. C. N. Monsarrat, Montreal, Que., is Engr. Bridges.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—Louis G. Destremps & Son, 56 Main St., Fall River, are preparing plans for the proposed Fall River District court-house. It will be of brick with granite trimmings, two stories high, and will cost $150,000.

MERIDEN, CONN.—Plans and specifications are asked until Feb. 18 by Thomas D. Bradstreet, State Controller, Hartford, Conn., for proposed State Armory to be erected at Meriden. The sum of $90,000 has been appropriated for this purpose, and the above sum must include the cost of construction, heating plant, architects' plans, and supervision and furnishings.

NEW YORK, N. Y.—We are advised by William C. Frohne, 38 East 21st St., that contracts for constructing a 16-story commercial building to be erected for Philip Braender, 143 West 125th St., at the corner of Broadway and Fourth St., will be let soon. It will front 80.5 ft. on Broadway and 110 ft. on the street, and will be of fireproof construction, with facades of brick trimmed with limestone and terra cotta, decorated with large carved owls at the fourth story, pilasters at the topmost stories supporting a roof cornice decorated with a row of flambeaus. The cost will be about $1,000,000.

Plans have been filed for an 18-story office building structure, to be erected for the Improved Property Holding Co., 505 Fifth Ave., replacing the old-fashioned 4-story residence owned by William Barclay Parsons, Harry De Berkley Parsons, and Eliza Schuyler Parsons. The building will have a frontage of 37 ft. and a depth of 108 ft. It will have a facade of brick, trimmings of limestone and terra cotta and will be adorned with Corinthian pilasters at the 16th story, supporting an ornamental cornice. The building is to cost $200,000.

NEW YORK, N. Y.—We are officially advised that the National City Bank, 42 Wall St., has let contract for general construction of its proposed building on the site of the old Custom-house, on the south side of Wall St., to the FULLER CONSTRUCTION CO., Flatiron Bldg., New York. The contract for 3,000 tons of steel to be used in construction has been let to the Receivers of MILLIKEN BROS., 11 Broadway. The building will be constructed of white marble, eight stories high, with provision for 25 stories. It will cost approximately $2,500,000. The site covers the block bounded by Exchange Pl., Wall, William and Hanover Sts. It contains about 33,000 sq. ft. McKim, Mead & White, 160 Fifth Ave., are Archs.

NEW YORK, N. Y.—J. C. Cocker, Arch., 103 East 125th St., advises us that he is preparing plans for four 5-story brick store and tenement buildings, to be built at Jennings St. and Intervale Ave., for Robertson & Gammie, 986 East 138th St. Cost, $160,000. The plans will be ready for estimates on Feb. 3.

SYRACUSE, N. Y.—The report of the State Fair Commission to the Legislature will include the plans for the new buildings to be erected at Syracuse. These were prepared by Green & Wicks, 110 Franklin St., Buffalo, the official architects appointed after competition, and provide for an expenditure of $1,877,400. Thirty-two new buildings are provided for by the plans, as well as other improvements, as follows: Administration, express, telephone and telegraph, $40,000; hospital, ambulance, fire-house, two stories each, $25,000, $6,250 and $6,250 respectively; State grange with large hall, $25,000; manufactures and liberal arts, with two front annexes, $222,400; live stock pavilions, six annexes, $183,750; show horses' annex, $150,000; race horses, five buildings, $75,400; covered judging ring, including sheds, $157,500; dairy building, annex, $61,000; horticultural building, one circular annex, $156,250; poultry, one story, press building, two stories, $87,000; art building, $33,750; women's building, $33,750; restaurant, $40,000; model farm barn, $10,000; space for farming implements, $5,000; open air theater, $41,000; four sanitary buildings, $10,000; trackage, freight platform, $10,000; railroad station, waiting-room and platforms, $25,000; police buildings and other services, $10,500; State institutions, one-half peristyle, $64,500; domestic art buildings, one-half peristyle, $64,500; club-house moved, $700; superintendent's house and other service, $10,500; parcel check rooms, four buildings, $3,200; two band-stands, one at $1,800 and another at $10,000; judging stand, $1,800; main entrance, $25,000; moving grand-stand and track, $30,000; fountains, pools, canals, etc., $25,000; grounds, grading, plantings, etc., $175,000; roads and walks, $50,000; total, $1,877,400. The first building to be erected will be the manufacturers and liberal arts building, at an estimated cost of $222,000.

*ROCHESTER, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 8, for construction, complete, except elevator, of extension to the U. S. post-office, etc., at Rochester.

PASSAIC, N. J.—We are officially advised that preliminary drawings for a high school building to be built here by the Board of Education, are being made by John F. Kelley and Davis & Davis, Archs., 1600 Chestnut St., Philadelphia, Pa. The building will cost $190,000 and equipment $10,000.

PHILADELPHIA, PA.—Plans have been prepared by Stearns & Castor, Stephen Girard Bldg., for constructing a 5-story brick, stone and terra-cotta flat building, 95 × 100 ft. The structure will be situated at Frankford, a suburb of this city, and will cost $100,000.

Watson, Huckel & Co., 1211 Walnut St., have been commissioned to prepare plans for a flat house to be erected in Germantown for G. Wallace Simpson, of the firm of L. P. Simpson & Son, 707 Walnut St. It will cost $100,000. According to the plans, which are not yet completed, the building will be two stories high, of stone, on a lot measuring 60 × 152 ft. It will contain four flats of seven rooms and a bath each on each floor. The interior will be finished with hardwoods, tile and marble.

We are officially advised that plans are being prepared by Roberts & Seeler, Archs., Real Estate Trust Bldg., for a printing house to be erected by the Curtis Publishing Co. at Sixth, Seventh, Walnut and Sansom Sts., at a cost of about $1,000,000.

HOMEWOOD, PA.—E. V. Kerner, Arch., House Bldg., is about to commence work on the plans and will receive bids in about two weeks for the school building for the Board of Education, Homewood, Pa. The work will consist of two 3-story wings, each containing twelve rooms. Brick, stone and terra-cotta, hard plaster, will be used in construction. Cost, $100,000.

PITTSBURG, PA.—Competitive plans will be prepared for new buildings, which, when completed, will cost over $1,000,000, for the Western University of Pennsylvania. Dr. S. B. McCormick is Pres.

MORGANZA, PA.—Thorston E. Billquist, Arch., 341 Sixth Ave., Pittsburg, Pa., has been commissioned to prepare plans for several proposed buildings for the Pennsylvania Reform School here. The proposed buildings include two dormitory buildings, modern gymnasium and an addition to the power house. Bids will be received in a short time by Edward McDonald, Chn. Bldg. Com., and the work will be started as soon as possible. The new buildings will be designed to replace the present buildings, and others will be designed later in the summer, making an entirely new group. It is estimated that the proposed improvements will cost $200,000.

BALTIMORE, MD.—Plans have been prepared by Joseph E. Sperry, Arch., Calvert Bldg., for reconstruction of the 6-story Masonic Temple, on Charles St., between Lexington and Saratoga Sts., which was damaged by fire to the extent of $370,000. The materials used will be granite, brick and steel. Gen. Thomas J. Shryock, 1401 Madison Ave., is Grand Master.

Ephraim Macht, Equitable Bldg., has commissioned A. Lowther Forrest, Arch., Professional Bldg., 330 North Charles St., to prepare plans and specifications for proposed office building at 13 East Fayette St., it is stated. The building will have four stories, 20 × 143 ft., white marble and ornamental terra-cotta trimmings; copper roof and windows; marble interior, electric wiring and fixtures; sanitary plumbing, steam heating system and elevator.

ANNAPOLIS, MD.—The contract for erecting a terminal station at Annapolis for the Washington, Baltimore & Annapolis Electric Ry. Co. has been let by Simonson & Pietsch, Archs., to E. D. SKIPPER & CO., Annapolis. J. N. Shannahan, Baltimore, is Gen. Mgr.

*WASHINGTON, D. C.—Bids are asked by Bernard R. Green, Supt. of Construction, until 2 p. m., Feb. 20, for putting in place, complete, the flooring of Tennessee marble, or Venetian mosaic, or terrazzo or granolithic; the Tennessee marble wall bases; the plastering; the terra-cotta fireproofing; the iron furring and lathing, and the ornamental iron work, required for the new building for the National Museum in this city.

Bruce, Price & de Sibour, Archs., Washington Herald Bldg., 734 15th St., N. W., will prepare plans for a dwelling, to be built at Massachusetts and Q Sts., N. W., for Mrs. Alexander Stewart. Cost, $100,000.

RICHMOND, VA.—Bids are asked until 6 p. m., Feb. 17, by C. P. Walford, Clk. and Superv., School Bd., City Hall, for constructing an addition to Fairmont public school, at the corner of 21st and T Sts., Richmond. A. F. Huntt, 1107 East Main St., Richmond, is Arch.

GREENSBORO, N. C.—The State Normal and Industrial College has adopted plans prepared by Hook & Sawyer, Charlotte, N. C., for erection of McIver Memorial Building or Science Hall, to cost about $100,000. J. I. Foust is Pres.

OCALA, FLA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to CHARLES HOERTZ & SON, Grand Rapids, Mich., contract for the construction of a post-office at Ocala, Fla., at $69,000; time to complete, July 1, 1909.

*TUSCALOOSA, ALA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 28, for construction, except elevators, of U. S. post-office and Court-house at Tuscaloosa.

HATTIESBURG, MISS.—The New Orleans & Northeastern R. R. Co. has adopted plans by Frank P. Milburn & Co., Home Life Bldg., Washington, D. C., for erection of passenger depot, 40 × 300 ft., to be built of ordinary brick. Cost is estimated at $125,000. James C. Haugh, New Orleans, La., Res. Engr.

NEW ORLEANS, LA.—The NOELKE-RICHARDS IRON WORKS CO., 180 Palmer St., Indianapolis, Ind., has obtained the contract for the steel and ornamental iron work of the Great Audubon Hotel, to be erected at New Orleans.

CINCINNATI, OHIO.—Harry Hake, Arch., Andrews Bldg., has prepared plans and will receive bids about Feb. 3 for a 15-story bank and office building, 94 × 95 ft., to be erected at Seventh and Vine Sts., for the Provident Savings Bank & Trust Co., Chamber of Commerce Bldg. Granite, press brick and terra-cotta and structural steel will be used in construction. Gas and electric fixtures for about 500 lights, 100 water closets and 150 washstands will be installed. Cost, $250,000.

SPRINGFIELD, OHIO.—The plans for the office building and freight house which are to be erected in this city by the Detroit, Toledo & Ironton Ry. Co., in the spring, have been completed by William Miller, 27½ Limestone St., Springfield. The plans provide for a 2-story office building having a frontage on the east side of Limestone St. of 46 ft., and a depth of 45 ft. The building will be built of pressed brick. The freight house proper will be attached to the rear of the building, and will extend east toward Spring St. about 200 ft. J. T. Young is Superv. of Bridges and Buildings, Springfield.

CLEVELAND, OHIO.—Hubbell & Benes, Citizens' Bldg., are preparing preliminary plans for an art museum, in Wade Park, for the Cleveland Museum of Art. L. E. Holden, Chn. Cost, from $500,000 to $1,000,000.

GARY, IND.—William B. Ittner, Ninth and Locust Sts., St. Louis, Mo., has been engaged to prepare plans for the schools to be erected here. He is preparing plans for a grammar school to contain 20 class-rooms and an auditorium having a seating capacity of 750. The cost of the building to be about $200,000. About $1,000,000 in all will be expended by the School Board.

TERRE HAUTE, IND.—The Bellville Coaster Co. will receive bids for the erection of a hotel, club and boat-house, a bath-house and gymnasium for a pleasure resort. Frank M. Pruster is Pres.

FORT WAYNE, IND.—Contract for furnishing the structural steel for the Hotel Anthony, to be erected in this city, has been let by Hilgeman Bros., general contractors, to the CAMBRIA STEEL CO., of Cambria, Pa., for $34,000.

GREENCASTLE, IND.—The Library Committee and Trustees of Depaw University have awarded a contract for the construction of the new Carnegie Library building to WILLIAM P. JUNGCLAUS CO., 825 Massachusetts Ave., Indianapolis, for $45,000. The steam heating plant to PYKE & CO., La Fayette, at $4,003; the plumbing to C. W. KEYSER, Indianapolis. The structure will be built of Bedford stone.

AGRICULTURAL COLLEGE, MICH.—Bids are asked until Feb. 11 for erecting a building to cost $125,000. A. M. Brown is Secy.

ANN ARBOR, MICH.—Smith, Hinchman & Grylls, Archs., Detroit, have been commissioned by the Board of Regents of the University of Michigan, J. M. Wade, Secy., Ann Arbor, to prepare plans for a chemical laboratory, for which $225,000 has been appropriated.

CHICAGO, ILL.—Holabird & Roche, Archs., 100 Jackson Blvd., have completed plans and are taking figures for an office building to be erected at Michigan Ave. and Van Buren St., to be known as the Vendome, for R. Hall McCormick, Trustee, 145 La Salle St. It will be 17 stories high, 101 × 171 ft., of steel, granite, terra-cotta paving, hollow and enameled brick construction. Cost, $1,000,000.

The Board of Education, Room 730, 143 Dearborn St., will readvertise for sealed proposals on steam heating for the 3-story addition to the Andrew Jackson School, on Damon St., between Aberdeen and Sholto Sts. Cost, $200,000.

MILWAUKEE, WIS.—Plans have been completed by Van Ryn & De Gelleke, 211 Grand Ave., for a 3-story normal school, to be built here, at a cost of $200,000.

*RED WING, MINN.—Bids are asked until 3 p. m., March 5, by James Knox Taylor, Supervy. Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring of the U. S. post-office at Red Wing.

DULUTH, MINN.—Bids are asked by James Knox Taylor, Supervy. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 4, for the construction, complete, of the extension to the U. S. post-office, court-house and custom-house at Duluth.

OMAHA, NEB.—Plans for an apartment house to be built in Omaha at 25th Ave. and Farnam St. are being prepared by John Latenser, Bee Bldg., for the heirs of William A. Paxton. Cost, $250,000.

ST. LOUIS, MO.—Bids are asked until Feb. 7, by William B. Ittner, Ninth and Locust Sts., Comr. of School Bldgs., Bd. of Education, for erecting the Walnut Park School.

*ST. LOUIS, MO.—Bids are asked until March 16, by Barnett, Hayes & Barnett, Archs., Frisco Bldg., St. Louis, for constructing a church building, to be known as the St. Louis Cathedral.

HOUSTON, TEX.—Jesse H. Jones has accepted plans by Stone Bros., Cora Bldg., New Orleans, La., for erection of fireproof theater, 75 × 165 ft., four stories, with a total seating capacity of about 1,600. Cost, $100,000.

SPOKANE, WASH.—M. C. MURPHY has the contract for the erection of Kemp & Herbert's block at the corner of Main Ave. and Washington St., and work on the new block will be resumed at once. Mr. Murphy states that the building will be ready for occupancy Aug. 1. The work of excavation has been completed and the foundation walls are built. The block will cost about $150,000.

SEATTLE, WASH.—Ground has been broken for the 11-story White Building, which is to be erected on the corner of Union St. and Fourth Ave. by the Metropolitan Building Co. The STONE-WEBSTER ENGINEERING CORPORATION, 147 Milk St., Boston, Mass., has the contract. The contracting firm has opened offices in the P.-I. Bldg. Howells & Stokes, 100 William St., New York, N. Y., are Archs.

SEATTLE, WASH. — The Metropolitan Building Co. has decided to erect a 12-story building at Union St. and Fourth Ave., to cost $500,000. J. F. Douglas is Secy.

LOS ANGELES, CAL.—The Pacific Mutual Life Insurance Co., Braley Bldg., will erect a building at the corner of Sixth and Olive Sts. The plans are by Parkinson & Bergstrom, Archs., and the contract for erection has been awarded to the RICHARDS-NEUSTADT CONSTRUCTION CO., Manadnock Block, San Francisco. The estimated cost of the structure is about $250,000. The building will be five stories high and will cover a ground space of 60 × 100 ft. It will be built on a steel frame, with concrete floors, brick exterior walls, and will be faced with terra-cotta and dull glazed pressed brick. The exterior will be ornamented with columns, five feet in diameter, and rising to a height of 80 ft. The columns, caps and cornice will be of terra-cotta. Composition material will be used for roofing. Granite will be used for base blocks. There will be two passenger elevators. J. A. Ferguson is Local Mgr.

SAN FRANCISCO, CAL.—Armand Cailleau, Van Ness and California Sts., will erect building at the corner of Grant Ave. and Sutter St. It will be known as the Tower Building. Its cost will be $175,000. John Pelton, 1767 Geary St., is Arch. Work will be commenced within a few weeks.

OTTAWA, ONT.—The Militia Department at Ottawa has recommended that an appropriation of $110,000 be placed in the estimates of the Public Works Department toward the erection of a drill hall at Ottawa, Ont. Sir Frederick W. Borden, Ottawa, is Minister of Militia and Defence.

VANCOUVER, B. C.—A. Gressman, of this city, will erect in March, 1908, a 10-story office and store building, to cost $175,000, on the site of the present Rubinowitz Department Store. The ground floor will be fitted up for stores, the balance to be used for office purposes.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

GLOUCESTER, MASS.—THE INTERNATIONAL POWER CO. was awarded the contract on Jan. 22 by the Fire Department Committee for a fire pump of 1,000 gallons capacity, at $2,199.

NEW HAVEN, CONN.—The New Haven Water Co. has acquired a controlling interest representing somewhat more than half of the $150,000 of stock of the Milford Water Co. A reorganization has been effected by which Eli Whitney, Pres. New Haven Water Co., takes the place of the president of the Milford Water Co.

ROCHESTER, N. Y.—All bids for supplying the city with 5,000 water meters were rejected on Jan. 22 by the Board of Contract and Supply.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Feb. 11, by John V. Coggey, Comr. of Correction, 148 East 20th St., for furnishing all labor and material required to install a pressure tank, pump, etc., including Croton connections to tank, supply line throughout the buildings, steam, exhaust and drip connections to pump, etc., at the Work-House, Blackwell's Island, New York.

*ASBURY PARK, N. J.—Bids are asked until noon, Feb. 8, by the Department of Water and Sewers for the erection complete of one 200-HP. internal furnace boiler.

Bids are asked by the Department of Water and Sewers, until noon, Feb. 15, for ten fire hydrants. John L. Coffin is Supt. Dept. of Water and Sewers.

PATERSON, N. J.—A committee was appointed on Jan. 16, at the joint meeting of the Boards of Finance and Public Works, to investigate and report upon the feasibility of acquiring a municipal water plant. H. J. Harder is City Engr.

PHILADELPHIA, PA.—The City Council has passed ordinances providing about $2,000,000 for sewer construction. The principal ordinance authorized the construction of main sewers at a cost of $800,000. George R. Stearns is Dir. Pub. Wks.

WILMINGTON, DEL.—Plans for remodeling the old pumping station at 16th and French Sts. are being prepared.

YORKVILLE, S. C.—G. E. Shand, C. E., Columbia, S. C., will prepare the plans for the construction of a sewer system for this town.

ATHENS, GA.—The Water-Works Committee of the City Council has authorized the purchase of a new filter for the water-works plant to be installed at once. This action was taken on account of the inadequate number of filters to supply the city with water.

LAFAYETTE, GA.—The city has voted to issue $40,000 of bonds for water-works, electric lights and schools.

ADEL, GA.—We are officially advised that bids are asked for material for the construction of the water-works system by H. S. Jaudon, Consulting Engr., Savannah, Ga., until Feb. 11.

COLUMBIA, MISS.—We are officially advised that this town will install a water-works and sewerage system. Estimated cost, $50,000. Xavier A. Kramer, Magnolia, Miss., is Consulting Engr.

JEFFERSON, OHIO.—The Village Council has passed an ordinance providing for another $40,000 bond issue for water-works.

ROCKPORT, IND.—The Rockport Electric Light & Water-Works Co. has been granted a ten years' franchise, and may ask for bids for the construction of a new plant.

ST. PAUL, MINN.—SHRIETER & CONNOLLY have been awarded the contract by the Water Board for the construction of the upper end of the Centerville conduit, 1,430 ft., at $5,500. G. A. Johnson is City Engr.

CROOKSTON, MINN.—About 20 miles of new drains will be constructed in Cass County during the coming year. Three of the drains in Gardner and Wister Townships will be twelve miles long and the drain in Stanley Township eight miles in length.

OMAHA, NEB.—S. L. Etnyre, City Engr., has estimated the cost of the proposed municipal water-works system at $586,902.

HARTFORD, N. DAK.—The town contemplates restoring the municipal water-works system recently damaged by the explosion of the tank and the partial destruction of the power house. Estimated cost, about $5,000.

FORT SMITH, ARK.—The Council contemplates increasing the water supply by having water mains laid.

*DALLAS, TEX.—Bids are asked by J. B. Winslett, City Secy., until 3 p. m., March 3, for one 10,000,000-gallon high-service, vertical, triple-expansion, condensing crank and fly wheel pump.

DOLORES, COLO.—Surveys for a water-works system for this city, to cost about $40,000, have been ordered.

TACOMA, WASH.—The City Council has awarded the contract for a 6,000,000-gallon pump for Station A to the PUGET SOUND METAL CO., at $7,827. Frank L. Davis is City Engr.

PORTLAND, ORE.—The Ways and Means Committee of the City Council has recommended the appropriation of $42,000 from the funds of the Water Department for the purchase of 600 fire hydrants to be installed this year. Douglas W. Taylor is City Engr.

NONANZA, ORE.—The Klamath Water Users Association may construct the Clear Lake dam during the present year.

SANTA CLARA, CAL.—Bids are asked by the Town Trustees until 8 p. m., Feb. 3, for the construction of a steel water tower and tank. G. J. Fenton is Town Clk.

SANTA MONICA, CAL.—Estimates of the cost of installing a municipal water system are being secured. The service for the city will require about six miles of 14-in. pipe, with 6-in. mains throughout the entire city.

PRESCOTT, ARIZ. — THE AMERICAN LIGHT & WATER CO. has been awarded the contract for the construction of about 24 miles of pipe from 4 to 16-in. diameter, at $251,940. A. B. Mader is City Surv.

PHOENIX, ARIZ.—We are officially advised that the following bids were received on Jan. 10, by Robert A. Craig, Supt. W.-Wks., for laying 10,560 ft. 4-in. 73,300 ft. 6-in., 10,420 ft. 8-in., 11,690 ft. 10-in., 550 ft. 12-in., 5,560 ft. 16-in. cast-iron water pipe and setting valves and hydrants: W. A. REES, Fayetteville, Ark. (awarded contract); T. C. Brooks, Jackson, Mich., $30,155; James Stanley, San Francisco, Cal., $31,636; Rogers & Spencer, Los Angeles, Cal., $31,912; William Evans, Phoenix, $32,-805; Doyle & Schwartz, Colorado Springs, Colo., $34,761; J. S. Penson, Williston, N. Dak., $36,909; J. R. Gordon, Pueblo, Colo., $37,407; William Dunney, Joliet, Ill., $37,571; H. G. Goelitz, Oak Park, Ill., $38,069; F. G. Mortimer, Chicago, $38,585; George W. Sturtevant, Chicago, $38,685; F. Prindle, Bisbee, Ariz., $38,754; Bosler & Flynn, Chattanooga, Tenn., $39,491; Toohey & Russell, Phoenix, $40,270; F. E. Frey, Vallejo, Cal., $41,055 N. S. Sherman Machinery Co., Oklahoma City, Okla., $43,025; O. C. Thompson, Phoenix, $43,257; New Orleans Eng. Co., New Orleans, La., $43,885; Tenney & Sinclair, Silver City, N. Mex., $45,425; George W. Craig, Omaha, Neb. $48,444.

COEUR D'ALENE, IDAHO.—The Rimrock Water, Light & Power Co., capitalized at $150,000, which has a number of springs near Garwood, contemplates developing these springs by constructing tunnels and centralizing the supply in a reservoir. The permanent flow, it is expected, will be large enough to supply Coeur d'Alene and the entire farming territory between Coeur d'Alene and Garwood. George W. Mason is Pres. and Gen. Mgr.

TORONTO, ONT.—INGLIS & CO., 14 Strachan Ave., Toronto, have been awarded the contract by the Beach Commissioners for installing a water-works system, including well, tank and towers, at about $16,000.

MEXICO CITY, MEX.—The Amalgamated Mining & Milling Co. has been organized with a capital stock of $5,000,000 gold to develop coal and oil fields, and to construct water-works systems. W. J. Burdy, J. A. Zertuche and H. J. Bangs are the incorporators.

AGUASCALIENTES, MEX.—The Compania Empresado Aguas de Calientes has been organized with a capital of $300,000 (Mexican money) to construct a system of water-works here. Schondube & Gutierrez, and Ramon G. Gutierrez are the incorporators.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

EDEN, ME.—The Town Meeting has decided to have a new section of sewers built from the corner of Maine St. and Cromwell's Harbor road to the shore of Cromwell's Harbor.

HARTFORD, CONN.—The Board of Contract & Supply has awarded to A. B. GRISWOLD, 46 Prospect St., New Britain, Conn., the contract for the construction of Section "B" of the Homestead Ave. sewer at $42,-075. Complete list of bidders noted Jan. 9.

NEW YORK, N. Y.—The lowest bid opened on Jan. 7 by Louis F. Haffen, pres. Boro. of Bronx, for constructing sewer and appurtenances in Anderson Ave., between West 164th St. and Shakespeare Ave., was submitted by O'Leary & Flanagan at $17,326. Other bidders were: George M. Dunn Co., $17,789; Briggs & McLaughlin, 19 East 130th St., $21,615; M. Marrone, 414 East 116th St., $18,461; Leahy Contracting & Construction Co., 1446 Prospect Ave., $19,972; P. T. Kane, 953 East 150th St., $19,544; Thomas Crimmins Contracting Co., 444 East 69th St., $20,965; W. T. Brennan, 759 East 173d St., $18,323; Jenks, Asserson Construction Co., Brooklyn, N. Y., $27,716; A. Paladino & Son, $18,006.

The lowest bid opened on Jan. 7, by Louis F. Haffen, Pres. Boro. of Bronx, for constructing sewers and appurtenances in portions of East 163d St., Grand Boulevard and Concourse east and west sides, was submitted by John Lyons, 3889 Villa Ave., at $15,705. Other bidders were: Joseph M. Stanton, 1431 Webster Ave., $16,307; D. W. Moran, 536 Burnside Ave., $17,714; Thomas Crimmins Contracting Co., 444 East 69th St., $18,488; P. J. Kane, 933 East 150th St., $18,952; Tetan Construction Co., $17,927; Briggs & McLaughlin, 19 East 130th St., $19,531; Jenks, Asserson Construction Co., Brooklyn, N. Y., $25,292; Wm. J. Brennan, 759 East 173d St., $18,082.

GOUVERNEUR, N. Y.—The construction of a sewer system and sewage disposal plant by the city has been advised by the State Health Board.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Feb. 5, by Bird S. Coler, Boro. Pres., for reconstructing the sewer in Guernsey St., from Norman to Nassau Aves.

*AUBURN, N. Y.—Bids are asked by C. August Koenig, Mayor, until 8 p. m., March 17, for the construction of sewers and appurtenances and a disposal works, the sewers to consist approximately of the following: 14,700 ft. of 8-in., 11,300 ft. of 10-in., 6,000 ft. of 12-in., 3,600 ft. of 15-in., 300 ft. of 18-in., and 1,250 ft. of 20-in. pipe. J. S. Hanlon is City Clk.

SUMMIT, N. J.—The WEMLINGER STEEL PILING CO., 11 Broadway, New York, has been awarded the contract for the construction of the Hill Crest storm sewer. William S. Logan is City Engr.

BUTLER, PA.—The Council contemplates having a purification plant erected immediately.

ELLWOOD CITY, PA.—The Council has decided to have a sewage disposal plant constructed at an estimated cost of $25,000 or $30,000.

DERRY, PA.—The Town Council has decided to construct a sewerage system throughout the principal portions of the town. It is estimated that the system will cost about $36,000 exclusive of the disposal plant. Plans will be prepared as soon as an engineer is selected, and construction work will be started early in the summer.

WASHINGTON, D. C.—Bids are asked until noon, Feb. 7, by the Commissioners of the District of Columbia, for constructing sewers. Henry B. F. Macfarland, Henry L. West, Jay J. Morrow are Comrs. D. C.

WASHINGTON, D. C.—Bids are asked until noon, Feb. 7, by the Commissioners of the District of Columbia for constructing sewers. Henry B. F. Macfarland, Henry L. West and Jay J. Morrow are Commissioners, D. C.

TAKOMA PARK, D. C.—Bids are asked by Capt. H. L. Pettus, Quartermaster, Walter Reed Army General Hospital, Takoma Park, D. C., until Feb. 24, for the construction of a sewer system on the Walter Reed Army General Hospital reservation, District of Columbia, including sewage ejector, tank, pump pit, pumps and motor.

COLUMBIA, MISS.—See ...er Water-Works.

CHATTANOOGA, TENN.—The Sewer Committee of the City Council has approved the ordinance appropriating $30,000 for construction of the Chestnut St. sewer.

COVINGTON, KY.—Plans are being prepared and will be submitted to the Town Council for the construction of a sewer system.

LOUISVILLE, KY.—The contract for the construction of that part of the Beargrass intercepting sewer which passes through the Bourbon stock yards, a distance of 900 ft., was awarded on Jan. 15, by the Sewerage Commission, to the HENRY ...EL CO., Louisville, at $3,900. P. L. Atherton is Chn. Comm.

CLEVELAND, OHIO.—The ... of Public Service is advocating the ...nditure of $900,000 for the construction ... sewers, $500,000 to be expended for new intercepting sewer work and for a number of new main sewers. Julius C. Dorn is Clk.

EATON, OHIO.—We are officially advised that bids are asked until noon, Feb. 19, by the city for the construction of sewers and a disposal plant. A. L. ... is City Engr. C. F. Ressler is City Clk.

NILES, OHIO.—The plans for the sewage disposal plant that will be constructed here in the spring and summer have been approved by the State Board of Health. F. M. Brewer, City Engr., will soon ask for bids. Estimated cost, about $1...

YOUNGSTOWN, OHIO.—JOHN GRADY, Youngstown, has been awarded the contract for the construction of the main sewer in East Federal St.

KENDALLVILLE, IND.—Plans are being prepared by W. G. Clark, C. E., Toledo, Ohio, for the proposed sewer extensions for this city.

NEW ALBANY, IND.—An ordinance has been passed for the construction of a sewer in Atlas St. Bids will be asked for in the spring.

ECORSE, MICH.—Plans for the construction of 28,000 lin. ft. of sewers have been prepared.

GLADSTONE, MICH.—Bids are asked by W. A. Narracong, City Clk., until 5 p. m., Feb. 3, for laying 250 ft. of piping from the sewer outlet at the foot of Sixth St., out into the bay.

WOODSTOCK, ILL.—We are officially advised that bids are asked until 8 p. m., Jan. 31, by the Board of Local Improvements for the construction of a sanitary sewer system and a sewage purification plant. Estimated cost, $80,200. George H. Hoy is Pres. Bd. W. S. Shields, Hartford Bldg., is Design. Engr.

CLINTON, IOWA.—The contract for the construction of about 3,500 ft. 12 to 16-in. pipe sewers, bids opened Jan. 14, has been awarded to THOMAS CAREY & SON, Clinton, at $3,597.

Charles P. Chase is completing plans, and preliminary legal steps are now being taken, for the construction of 13 miles of 10 × 48-in. tile and concrete sewers for Clinton. Estimated cost, $80,000.

MITCHELL, S. DAK.—GEORGE AUSTIN has been awarded the contract by the City Council for the construction of about 4,000 ft. of sewer in the south side of the city, at $3,300.

CARTERVILLE, MO.—We are officially advised that bids are asked until noon, Feb. 6th, by H. E. Moody, City Clk., for the construction of 12,000 ft. of sewer. F. A. Funk is City Engr.

MOBERLY, MO.—Bids will probably be asked in March or April for constructing pipe sewer. J. F. Curry is City Clk. S. McDonald is City Engr.

KANSAS CITY, MO.—The Board of Public Works is outlining preliminary plans for a new sewer system, estimated to cost about $2,000,000. The plan desired is for duplicate systems, one for sewage and another for surface drainage and down-spouts on houses, with a sewage disposal plant. Edgar A. Harper is City Engr.

EL RENO, OKLA.—Bids are asked until Feb. 1, by the City Council for the construction of sewers in various streets.

TRINIDAD, COLO.—F. O. Ray, Pueblo, Colo., is preparing plans for a sewerage system for Trinidad, estimated to cost about $35,000.

LOS ANGELES, CAL.—The Board of Public Works has directed Homer Hamlin, City Engr., to prepare estimates for the repair or construction of a new pier at Hyperion for the outfall sewer.

SELINA, CAL.—We are officially advised that plans for a complete sewer system covering the entire town have been adopted by the City Trustees. According to the plans the sewers will be 12 miles long, of 6, 8, 10 and 12-in. pipe, 3 to 6-ft. average cut, and will cost $40,579. W. H. Shafer is City Engr. J. L. Mitchell is City Clk.

BERKELEY, CAL.—MICHAEL HEAFEY has been awarded the contract by the city for the construction of sewers in Ward St., Mathews tract, Page St., west of Third St., and in Fourth St., from Gilman to Harrison Sts.

SAN JOSE, CAL.—Contracts have been awarded for the construction of sewers as follows: In Martel and Carlisle Sts., from River to Pleasant Sts., to CHARLES WEHNER; in Margaret St., from Third to Fifth Sts., to S. F. BENNETT. Charles H. Pieper is City Engr.

OAKLAND, CAL.—The following bids were received on Jan. 15 by the Board of Public Works for the construction of an extension of the east side sewer from East Eighth St.: C. D. Vincent, $14,983; Atlantic, Gulf & Pacific Co., 13 Park Row, New York City, $12,979; Cotton Bros. & Co., Bacon Bldg.,

Oakland, $17,886; Stanley Contracting Co., $16,323; Mervey-Elwell Co., $17,230; Burrell Bridge Construction Co., $16,137. F. C. Turner is City Engr.

OAKLAND, CAL.—The Board of Public Works has awarded the contract for constructing the extension of the east side sewer to the ATLANTIC, GULF & PACIFIC CO., 13 Park Row, New York, at $12,980.

SAN FRANCISCO, CAL.—D. J. O'CONNOR has been awarded the contract for the construction of a sewer in Delores St.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

*WATERBURY, CONN.—The Board of Public Works has authorized the Superintendent of Streets to purchase six street sprinkling carts, two road machines, one pair of draft horses, one long dump cart and a set of heavy harness, for the purpose of engaging in the street sprinkling business on a large scale. The Street Superintendent has also been authorized to submit to the board a list of the streets to be sprinkled during the summer.

SARATOGA SPRINGS, N. Y.—Bids are asked by the Sewer, Water and Street Commission until 3 p. m., Feb. 4, for sprinkling certain streets in the village from May 1 to Oct. 15, inclusive. Philip S. Wakeley is Clk. Comn.

LONG ISLAND CITY, L. I., N. Y.—Bids are asked until 11 a. m., Feb. 5, by Joseph Bermel, Pres. Boro. of Queens, Long Island City, for the removal of snow and ice in the first, third, fourth and fifth districts, Borough of Queens.

WEEHAWKEN, N. J.—Bids for the removal of garbage for one year have been opened as follows: JAMES PADAVANO, $2,700 (awarded contract); C. A. Callery (for the Weehawken Disposal Co.), $3,650; John Gistori, $2,739; P. A. Pasone, $3,166.

CLEVELAND, OHIO.—Bids are asked by A. R. Callow, Secy. Bd. Pub. Serv., until noon, Feb. 6, for one rotary steam jacketed percolator for the garbage disposal plant.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

FORT WILLIAM (Cape Cottage post-office), ME.—Bids are asked by Capt. F. J. Morrow, Q. M., U. S. A., 478½ Congress St., Portland, until 11 a. m., March 2, for grading at this post.

LYNN, MASS.—Bids are asked until 5 p. m., Feb. 6, by the Board of Public Service for laying about 14,000 sq. yds. of smooth paving. Horace R. Parker is Ch. Clk., Bd.

ALBANY, N. Y.—Bids were received by Frederick Skene, State Engr. and Surv., on Jan. 29, for the improvement of the State highways, as follows:

West Point-Central Valley Road, No. 281, Orange County, 5.85 miles: Thomas E. Vermilye, New York, $80,000; Orange County Road Construction Co., 120 Broadway, New York, $86,394; Richards & Gaston, New York, $89,403; John C. Tierney, Hoboken, N. J., $74,382; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $82,256; D. Moynehan, Herkimer, N. Y., $82,827; Spuyten Duyvil Construction Co., New York, $85,231.

State Road No. 426, Sec. 2, Jefferson County, 4.047 miles: William J. Semper, Watertown, N. Y., $45,330.

Riverside Drive, Road No. 444, Broome County, 1.135 miles: Casey & Murray, Rochester, N. Y., $14,554.

Tully Road No. 489, Onondaga County, 4.44 miles: Chambers & Grady, Rochester, N. Y., $28,618; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $36,096; Monroe Roads Co., Rochester, N. Y., $36,204.

Mayfield-Northville Road No. 541, Fulton County, 6.79 miles: Martin Murray, Troy, N. Y., $49,929; Frank Gilchrist, Glens Falls, N. Y., $55,211; Brown & Lowe, Schenectady, N. Y., $51,392; Bellew & Merritt Co., Tuckahoe, N. Y., $59,201; Buckley Construction Co., Plattsburgh, N. Y., $52,393; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $49,773.

New Bridge Road No. 543, Nassau County, 6.625 miles: Pease Bros., Flushing, L. I., N. Y., $76,177; Russell Contracting Co., New York, $55,726; Andrews Bros., Mineola, L. I., N. Y., $53,589; Spuyten Duyvil Construction Co., New York, $57,565; Murphy Bros., Brooklyn, N. Y., $64,736; Twombly & Eldert, Jamaica, L. I., N. Y., $47,555; Henry J. Mullin, Jamaica, L. I., N. Y., $50,241; Thomas J. Vermilye, New York, $54,905; Long Island Contracting Co., Long Island City, L. I., N. Y., $55,866; Bellew & Merritt Co., Tuckahoe, N. Y., $56,125.

Fabius Road No. 554, Onondaga County, 4.91 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $42,283.

Fly Road No. 553, Onondaga County, 2.33 miles: Frank S. Sporato, Syracuse, N. Y., $21,202; Charles H. Flanigan, Albany, N. Y., $27,311; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $21,096.

East Syracuse-Chittenango Road, No. 535, Onondaga County, 7.79 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $88,593; M. V. Ryan Construction Co., Buffalo, N. Y., $93,370.

Rome-Northwestern Road No. 562, Sec. 2, Oneida County, 7.23 miles: Charles H. Flanigan, Albany, N. Y., $51,410; Brown & Lowe, Schenectady, N. Y., $46,000; Kilkenny & Buckley, Utica, N. Y., $47,485.

Rome Northwestern Road No. 562, Sec. 2, Oneida County, 4.11 miles: Kilkenny & Buckley, Utica, N. Y., $40,548; Michael F. Dollard, Albany, N. Y., $37,763; Brown & Lowe, Schenectady, N. Y., $37,685; Casey & Murray, Rochester, N. Y., $41,782.

Rome-Taberg Road No. 583, Oneida County, 5.11 miles: Hyde & Eddy, Rome, N. Y., $49,884; Brown & Lowe, Schenectady, N. Y., $49,690.

Skinnersville-New Home Bridge Road No. 584, Erie County, 7.96 miles: M. V. Ryan Construction Co., Buffalo, N. Y., $82,664; Mosier & Summers, 1266 Seneca St., Buffalo, N. Y., $80,183; Henry P. Burgard Co., Buffalo, N. Y., $71,614; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $76,011.

Smyrna-Otselic Road No. 599, Chenango County, 6.48 miles: M. L. Siver & Co., Sidney, N. Y., $60,170.

Schenectady-Rotterdam Junction Road No. 641, Schenectady County, 4.76 miles: Thomas H. Karr, Troy, N. Y., $42,453; Buckley Construction Co., Plattsburgh, N. Y., $33,624; Harvey Leamon, Schenectady, N. Y., $40,815; Michael F. Dollard, Albany, N. Y., $34,969; Brown & Lowe, Schenectady, N. Y., $33,647; Morris Kantrowitz, Albany, N. Y., $36,301; Bellew & Merritt Co., Tuckahoe, N. Y., $35,556; Malloy & Davis, Schenectady, N. Y., $33,545.

Edmeston-West Burlington Road No. 677, Otsego County, 4 miles: M. L. Siver & Co., Sidney, N. Y., $42,815

Knapp's Corners-Spring Valley Road. No. 689, Rockland County, 3.57 miles: Arthur W. Canney, Croton-on-the-Hudson, N. Y., $43,683; De Graff & Hogeboom, Bloomington, N. Y., $36,221; Thomas E. Vermilye, New York, $40,135; Bellew & Merritt Co., Tuckahoe, N. Y., $32,831; John C. Tierney, Hoboken, N. J., $37,616; D. Moynehan, Herkimer, N. Y., $40,593; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $36,582; Fusco & Gurner, Newark, N. J., $22,958; Thomas J. Gerhart, New York, $32,899.

Riverside-Chestertown Road No. 691, Warren County, 5.75 miles: Buckley Construction Co., Plattsburgh, N. Y., $46,462; Charles H. Flanigan, Albany, N. Y., $46,324; Sandy Hill Excavating & Constructing Co., Sandy Hill, N. Y., $51,140; Bellew & Merritt Co., Tuckahoe, N. Y., $49,820; Brown & Lowe, Schenectady, N. Y., $48,819; Hinman & Sproul, Schenectady, N. Y., $47,803; P. F. Herlihy, Glens Falls, N. Y., $55,610; Linahan & Burnham, Glens Falls, N. Y., $50,416; Kingsbury Construction Co., Sandy Hill, N. Y., $49,938; Spuyten Duyvil Construction Co., New York, $49,176.

Loon Lake-Pottersville Road No. 692, Warren County, 8.094 miles: Kingsbury Construction Co., Sandy Hill, N. Y., $86,496; Sandy Hill Excavation & Construction Co., Sandy Hill, N. Y., $83,158; Hinman & Sproul, Schenectady, N. Y., $78,342; Brown & Lowe, Schenectady, N. Y., $77,181; Buckley Construction Co., Plattsburgh, N. Y., $76,181; Bellew & Merritt Co., Tuckahoe, N. Y., $79,011; Spuyten Duyvil Construction Co., New York, $79,959; P. F. Herlihy, Glens Falls, N. Y., $76,102.

Amityville-Babylon Road No. 693, Suffolk County, 3.82 miles: P. F. Herlihy, Glens Falls, N. Y., $38,826; Rockefeller Bros., Brooklyn, N. Y., $35,847; Thomas E. Vermilye, New York, $40,181; Russell Contracting Co., New York, $38,352; Frank J. Gallagher, Brooklyn, N. Y., $34,906; Pease Bros., Flushing, L. I., N. Y., $54,479; Andrews Bros., Mineola, L. I., N. Y., $40,676; Bellew & Merritt Co., Tuckahoe, N. Y., $29,502; Benjamin B. Wood, Babylon, L. I., N. Y., $37,920; Long Island Construction & Supply Co., Long Island City, L. I., N. Y., $38,238; Henry J. Mullin, Jamaica, L. I., N. Y., $35,572; Robertson & Gerhart Construction Co., New York, $29,520.

Quogue-Riverhead Road No. 694, Suffolk County, 7.69 miles: Robertson & Gerhart Co., New York, $66,097; Bellew & Merritt Co., Tuckahoe, N. Y., $70,616; Pease Bros., Flushing, L. I., N. Y., $110,376; Thomas E. Vermilye, New York, $83,369; Long Island Construction & Supply Co., Long Island City, L. I., N. Y., $84,015; H. J. Mullin, Jamaica, L. I., N. Y., $72,225; Hammond & Sloane Co., New York, $66,547; Frank J. Gallagher, Brooklyn, N. Y., $83,616.

NIAGARA FALLS, N. Y.—Bids will soon be asked by the Board of Public Works for paving Buffalo Ave. from Sugar St. to the city line. Estimated cost, $65,000.

FT. TERRY, N. Y.—Bids are asked until 11.30 a. m., March 2, by Capt. William E. Horton, Q. M., U. S. A., New London, Conn., for the construction of approximately 3,400 lin. ft. of macadam and 1,200 lin. ft. of dirt roads at this post.

LONG ISLAND CITY, L. I., N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., Feb. 5, for furnishing to the Bureau of Highways, broken stone and screenings of limestone and broken stone, and screenings of trap rock.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Feb. 13, by Bird S. Coler, Boro. Pres., for furnishing and delivering 8,500 cu. yds. of sand, 600,000 lbs. of paving pitch, 1,200 cu. yds. of paving gravel, 7,500 bbls. of Portland cement, $60,000 sq. ft. of bluestone flagstone, 2,500 cu. yds. of sand.

*RED BANK, N. J.—Bids are asked until 6 p. m., Feb. 10, by A. C. Harrison, Town Clk., for paving Front St., from the westerly end of Throckmorton's bridge to its intersection with the westerly side of Pearl St.; and Broad St. from its intersection with Front St. to its intersection with the southerly side of Monmouth St.

TRENTON, N. J.—Bids are asked until 8 p. m., Feb. 4, by the Common Council, for the repaving of South Clinton Ave., from the southerly line of Greenwood Ave. to the southerly side of Elmer St., except that portion of said street lying inside the rails, between the tracks and for a distance of two feet outside each outer rail of the tracks of the Trenton Street R. R. Co., with sheet asphaltum on a 6-in. concrete base. Abram Swan, Jr., is City Engr.

GLEN OLDEN, PA.—Bids are asked until Feb. 3 by the Clerk of Councils for constructing cement sidewalks.

WASHINGTON, D. C.—The WISE GRANITE CO., Wise, N. C., has been awarded the contract for furnishing 12,000 ft. 6 by 20-in. straight curb at 99 cts. per ft., and 1,500 ft. 6 by 20-in. circular curb at $1.30 per ft.

FORT BARRANCAS, FLA.—Bids are asked until noon, Feb. 20, by Col. J. W. Pope, Ch. Q. M., U. S. A., Candler Bldg., Atlanta, Ga., for improving the roadway to the Barrancas National Cemetery.

NEW ORLEANS, LA.—Both sides of Carrollton Ave., from St. Charles Ave. to the New Basin Canal, may be paved with asphalt, William T. Hardee is City Engr.

OTTAWA, OHIO.—Bids are asked until Feb. 8 by the Board of County Commissioners for constructing stone roads. J. T. Mallow is County Surv.

TIFFIN, OHIO.—Bids are asked until Feb. 8 for a wood block floor and sidewalk on west half of Washington St. bridge. Estimated cost, $33,000. R. R. Bour is County Audr.

COLUMBUS, OHIO.—Bids are asked until Jan. 30 by the Board of Public Service for grading and paving with asphalt, hard brick or block or other substantial material portions of eight streets. E. W. Hirsch is Secy. Bd.

Contracts for the repair of 23 streets were awarded on Jan. 16 by the Board of Public Service as follows: College St., GEIGELE & GAMES; Capital St., S. T. KNIGHT; Carpenter St., SULLIVAN & SON; Chapel St., B. & G. BALDWIN; 18th St., SULLIVAN & SON; Edward St., GEIGELE & GARNER; Franklin Park, South, M. J. BURNS; Fulton St., W. E. SCHWARTZ; Fifth St., J. C. BEASLEY; Gilbert St., SULLIVAN & SON; Harrison Ave., W. E. SCHWARTZ; Bryden Road, Gustavus Lane, A. G. PUGH; Hunter Ave., SULLIVAN & SON; Lane Ave., LUCHTENBERG & CO.; Monroe Ave., W. E. SCHWARTZ; McDowell St., SULLIVAN & SON; Northup Alley, B. & G. BALDWIN; Ohio Ave., Perry and Swain Sts., M. J. BURNS.

BROOKVILLE, IND.—Bids are asked until 1 p. m., Feb. 4, by Charles A. Miller, County Audr., for constructing gravel road in Ray Township and gravel road in Laurel Township.

COLUMBUS, IND.—Bids are asked until 10 a. m., Feb. 4, by John M. Davis, County Audr., for the construction of 7,392 ft. of gravel road in Union Township.

PAOLI, IND.—Bids are asked until 2 p. m., Feb. 4, by Alvin B. Ham, County Audr., for constructing three gravel roads in French Lick Township, as follows: West Baden and Orangeville road, 6,225 ft. long; French Lick and Leavenworth road, 10,880 ft. long; Abydel and Unionville road, 15,681 ft. long.

*RICHMOND, IND.—We are officially advised that TRIPPLER & SONS, Peru, Ind., were awarded the contract on Jan. 24 for laying cement walks, curbs and gutters and macadamizing roadway. Fred R. Charles is City Engr.

MT. VERNON, IND.—Bids are asked by the Commissioners of Posey County until 2 o'clock p. m., Feb. 17, for the construction of a gravel road, known as the Pickles road, two miles in length; for the construction of three gravel roads aggregating six miles and 2,459 ft. in length, by grading, gravelling, draining, etc., as petitioned for by William T. Purcell and others; and for the construction of a gravel road, two miles and 4,440 ft. long, as petitioned for by J. H. Price and others. Paul Maier is County Audr.

MONTICELLO, IND.—Bids are asked by the Commissioners of White County until noon, March 3, for the construction of 3,975 ft. of stone road in Jackson Township. J. L. Ackerman is County Audr.

JACKSON, MICH.—Bids are asked until 7.30 p. m., Jan. 31, by the Board of Public Works for paving West Main St. from the west line of First St. to a point 132 ft. west of the west line of West Ave., a distance of about 2,465 ft., and First St. from the south line of Wilkins St. to the south line of Morrell St., a distance of about 700 ft.

EAST ST. LOUIS, ILL.—Bids are asked until noon, Feb. 1, by the Board of Local Improvements for the improvement of Third St. from the northerly line of Broadway to the southerly line of Missouri Ave. Frank B. Hanna is Clk. Bd.

ST. PAUL, MINN.—Bids are asked by L. W. Rundlett, City Engr., until Feb. 2, for 1,000,000 ft. of pine lumber for crosswalks, 40,000 vitrified paving brick, and 10,000 sq. yds. of asphalt paving for the year 1908.

KANSAS CITY, MO.—Bids are asked until Jan. 30 by the Board of Public Works for furnishing material and constructing brick pavements on portions of Lydia Ave. and several alleys, Portland cement concrete pavement on two alleys and artificial stone curbing on numerous streets.

PINE BLUFF, ARK.—PETTY & SHELBY, Little Rock, Ark., have been awarded the contract for paving East Second Ave., one mile to be paved with vitrified brick, at about $30,000.

TACOMA, WASH.—BARNETT & BERRY were awarded the contract on Jan. 20, by the Board of Public Works, for grading and laying sidewalks on L St. from South Twelfth St. to 14th St.; 13th St. from Pine to Cedar Sts., and Bay St. from Fife to Junett Sts., at $12,618. Frank L. Davis is City Engr.

SAN FRANCISCO, CAL.—FLINN & TREACY have been awarded the contract by the Board of Public Works for improving 25th St. by bituminous paving.

BERKELEY, CAL.—Contracts for street improvements have been awarded as follows: Macadamizing Eunice St., in Hopkins' Terrace tract, EDWARD SCHMIDT; macadamizing Irving St., in Dohr tract, HUTCHINSON CO.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

LOWELL, MASS.—Work is to start Feb. 1 on the mill for the Bigelow Carpet Co., at Lowell, Mass., for which contract has been let to the J. W. BISHOP CO., 107 Foster St., Worcester, Mass. Plans by Charles T. Main, Engr., 25 Milk St., Boston, call for a building of brick, mill construction, five and six stories, 210 × 62 ft., and an extension, six stories, 49 × 62 ft.

WOBURN, MASS.—The contract for erecting a 2-story factory, 108 × 36 ft., for Murray Bros., Montvale Ave., Woburn, Mass., patent leather manufacturers, has been awarded to T. J. RING, 18 Stoddard St., Woburn.

WINCHENDON, MASS.—M. E. Converse & Co., toy manufacturers, Winchendon, Mass., probably will erect a 3-story addition to their factory soon. Owners will draw their own plans.

BRISTOL, CONN.—The Wallace Barnes Co., manufacturers of steel clock springs and specialties, has had plans prepared for an addition to its plant. The structure will be of brick, three stories high, 97 × 100 ft. The contract will be awarded at an early date.

ALBANY, N. Y.—Plans have been drawn for a new erecting shop to be built by the New York Central & Hudson River R. R. Co. at the West Albany yards, 420 × 70 ft., and about 60 ft. in height. The estimated cost of the building is $200,000. Reed & Stem, 7 East 42d St., New York, are Archs. George W. Kittredge is Ch. Engr. of the company. The company also plans to build in the near future a large machine shop which will cost about $250,000.

WATERVLIET, N. Y.—We are informed that S. T. Messner, Binghamton, N. Y., is interested in the Tiona Oil Co., mentioned last week. The company intends to establish a branch in this city.

HORNELL, N. Y.—A. J. Stone, Gen. Supt. of the Erie R. R. Co., has announced that the company intends to enlarge its shops here soon.

HAZLETON, PA.—Plans are being prepared by Ballinger & Perrot, Archs., 1,200 Chestnut St., Philadelphia, Pa., for a 1-story addition to silk mill for the Duplex Silk Co.

GREENSBURG, PA.—The Stahl Glass Co. has decided to reconstruct the plant destroyed by fire on Jan. 18. The improvements will cost about $100,000, and will be started as soon as the weather will permit.

NEW CASTLE, PA.—The Standard Steel Car Co., Frick Bldg., Pittsburg, Pa., will double the capacity of the plant which it recently purchased from the Shelby Tube Co., in this city. J. M. Hansen is Pres.; William Bierman is Secy.

ALTAPASS, N. C.—The Model Mill Co., with a capital of $100,000, will erect a 200-bbl. flouring mill here. A. L. Bauhard, of Bristol, Tenn., is the Pres. J. B. Jackson, of Altapass, and W. H. Small, of Evansville, Ind., are interested.

SALISBURY, N. C.—Thompson Bros. will establish a garage, with repair shop. They will erect a 2-story brick structure, 62 × 99 ft., with electric lighting and elevator. Machine-shop equipment will be installed. Contract for erection has not been awarded.

KINSTON, N. C.—Plans for the plant to be erected by the Caswell Cotton Mills of Kinston have been completed and the construction will be started about April 1. A 2-story structure, 200 × 80 ft., is to be erected, which will have a capacity of 15,000 spindles. Operations will begin with 5,700 spindles in position for the manufacture of soft hosiery yarns, Nos. 20 to 24. This firm was incorporated last October, with $200,000 capital stock. It has since been organized, with J. E. Hood, Pres.; J. W. Black, Vice-Pres and Gen. Mgr.; W. D. Laroque, Secy. and F. C. Dunn, Treas.

MACON, GA.—The Atlanta Guarantee Hose Co., 34½ Peachtree St., Atlanta, will invest $50,000 in establishing a mill. D. F. Ferris is Pres.

NEW PHILADELPHIA, OHIO.—The Dover plant of the Stark-Tuscarawas Brewing Co. will be removed to this city.

LORAIN, OHIO.—The International Engineering Co., of Scranton, Pa., may establish its plant in this city. The committee from that town has found a desirable site on the New York, Chicago & St. Louis Ry. upon which it will build.

The U. S. Steel Corporation is planning to establish at Lorain a steel rail mill. Richard Trimble is Secy.-Treas., 71 Broadway, New York.

AKRON, OHIO.—The Adamson Machine Co. probably will erect a new plant. R. B. Koontz is Secy.

DETROIT, MICH.—Baxter & O'Dell, Archs., Hammond Bldg., have completed the plans for the erection of a $12,000 building to be used as a bakery, at the corner of Grand River Ave. and Sixth St., for the Wagner Baking Co. The building will be 100 × 140 ft., one story high, steel frame, with walls of pressed brick. The contract for the mason work was let to PUTNAM & MOORE; the contract for the carpenter work was secured by STRELOW & PITT. The steel work will be done by H. B. LEWIS. The GILBERT ROOFING CO. has the contract for that part of the construction and H. BERTLING will do the sheet metal work.

A 4-story knitting factory at the corner of Third and Porter Sts., owned by the United Knitting Co., which was destroyed by fire, at a loss of $50,000, will be rebuilt.

ROCK ISLAND, ILL.—Whitsitt & Drury, 317 15th St., Moline, Ill., are preparing plans for a 1-story factory building, 100 × 300 ft., to be erected for the National Neck Yoke Co., Rock Island. Estimated cost, $25,000.

JOLIET, ILL.—We are officially advised that The Illinois Steel Co. has awarded to JOHN W. SEAVER, Engr., Caxton Bldg., Cleveland, Ohio, the contract for furnishing the new coke oven plant, which it is now erecting at Joliet, with three combination coke pushers and coal levelers. These machines are of heavy design.

DAVENPORT, IOWA.—Preparatory to the building of its new wagon factory the Davenport Wagon Co., Davenport, is tearing down old buildings and clearing the site for construction work on the new plant, which will be begun in the spring. The company makes a specialty of all steel farm wagons.

OMAHA, NEB.—Haarmann Bros., Omaha, will erect a vinegar and pickle factory to extend from Twelfth to Thirteenth Sts. Estimated cost, $100,000.

KANSAS CITY, MO.—Sheppard & Farrar, Long Bldg., are preparing plans and will receive bids for a 6-story factory building, 128 × 150 ft., to be built at Eighth and Santa Fe Sts., for the Loose, Wiles Candy Co., on premises. Brick and stone are to be the materials of construction, with hard plaster, composition roof, galvanized iron skylights, plate and wire glass, structural iron, gas and electric fixtures, steam heat, water closets and lavatories. Cost, $150,000.

JOPLIN, MO.—George Pfanstie, of Joplin, is reported to be having plans prepared for a $125,000 ice and cold storage plant.

FORT WORTH, TEX.—The Texas Farmers' Union contemplates erecting an implement factory to cost $25,000. A. H. Keefe is Business Agt.

SAN ANGELO, TEX.—The West Texas Compress Co. will build a cotton compress at San Angelo, to cost about $50,000. W. G. Churchill, of Brownwood, Tex., is interested.

TULSA, OKLA.—The Hub Oil Co. was recently reported incorporated by L. D. Lothrop and others, to erect a refinery at a cost of about $100,000. Daily capacity, 200 bbls. J. M. Hayner is Secy. W. M. Robbins is Engr.-in-Charge.

PASCO, WASH.—John J. Schlodtfelt will construct a $100,000 brewery in Pasco. The Yakima Brewing & Malting Co. is interested in Pasco.

PORTLAND, ORE.—The Columbia Milling Co. contemplates doubling the capacity of its plant on East Market St., between East Second and East Third Sts.

CANBY, ORE.—S. N. Strubahr and G. Walsh will build a sawmill on the Molalla River near Macksburg, with capacity of 10,000 ft. a day.

WINDSOR, ONT.—The Canadian Concrete Co., a branch of the American Concrete Co., of Chicago, will establish a plant in Windsor, it is stated.

BRANTFORD, ONT.—The Ham & Nott Mfg. Co., Brantford, Ont., will enlarge their factory this spring at a cost of about $40,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

PLATFORM.—Jefferson Barracks, Mo.—Bids are asked until 11 a. m., Feb. 18, by O. W. Bell, Q. M., U. S. A., for constructing a concrete platform at railroad track.

DREDGING.—San Francisco, Cal.—Bids are asked until Feb. 17 by Lieut.-Col. John Biddle, Corps Engrs., U. S. A., 1840 Polk St., San Francisco, for dredging in Humboldt Bay, Cal.

FLOOD PROTECTION.—Grand Rapids, Mich.—Bids are asked until 8 p. m., Jan. 30, by the Board Public Works for constructing dock line for flood protection from the Grand River. Chas. M. Wilson, Pres.

DREDGING.—Savannah, Ga.—Bids are asked until noon, Feb. 6, by Lieut.-Col. Dan C. Kingman, Corps Engrs., U. S. A., for dredging in inland waterway between Savannah, Ga., and Beaufort, S. C.

MONUMENT.—La Fayette, Ind.—J. S. Sims, L. E. Wells and A. A. Jones have been appointed a commission to let contract for monument to be erected on the Tippecanoe battlefield. It will cost about $25,000.

*LIGHTHOUSE, ETC.—Wilmington, Del.—Bids are asked by the Light-house Engineer, Wilmington, Del., until 11 a. m., Feb. 20, for erecting concrete base, tower and walk at the Schooner Ledge Light Station, Pa.

DITCH.—Champaign, Ill.—Bids are asked until 10 a. m., Feb. 4, by the Commissioners of the Embarras River Special Drainage Dist., for draining main ditch in this district. Ray & Dobbins, Ottys., Champaign, Ill.

DREDGING.—Washington, D. C.—The Army Engineer Corps has awarded to the BOWERS HYDRAULIC DREDGING CO., Camden, N. J., contract for dredging 523,000 cu. yds. in the Rappahannock River, Va., at 14.9 cts. per cu. yd.

JETTIES, ETC.—Falmouth, Mass.—Bids are asked by the Board of Harbor and Land Commissioners, Room 131, State House, Boston, until Feb. 7, for building stone jetties and dredging to make a boat harbor at Deacons Pond in Falmouth.

DITCHES.—Pocahontas, Iowa.—Bids are asked by J. A. Terry, County Audr., until Jan. 31, for furnishing material and constructing tile and open ditches in Drainage Improvement Dists., Nos. 13, 20, 26, 30 and 31. Total estimated cost, $64,000.

TELEPHONE SYSTEM.—Winnipeg, Man.—The Manitoba Provincial Government has purchased the entire system of the Bell Telephone Co. in that province for $3,300,000 and will build a number of extensions in the spring. Orrin F. French is Ch. Engr.

*BEACON LIGHTS.—Baltimore, Md.—Bids are asked at the office of the Light House Engineer, Baltimore, until noon, Feb. 15, for furnishing material and labor necessary for the completion and delivery of the metal work for La Trappe River beacon light, Md.

DRAIN.—Council Bluffs, Iowa.—Bids are asked until Feb. 3 by the Board County Supervisors, for furnishing material and constructing sections Nos. 1 and 2 of the Avoca Drain, requiring about 10,630 ft. 6, 8, 10, 12 and 16-in. tile. W. C. Cheyne, County Audr.

RASING LOCK.—Louisa, Ky.—Bids were received by Lieut.-Col. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, Ohio, on Jan. 20 for raising crest of Lock and Dam 3, Big Sandy River, near Louisa, Ky. Bids in detail are given under Contract Prices in this issue.

*BREAKWATER, DREDGING.—Algoma, Wis.—Bids are asked until 2 p. m., Feb. 24, by Maj. W. V. Judson, Corps Engrs., U. S. A., Milwaukee, Wis., for building reinforced concrete caisson breakwater, pile pier, and plank cribs, removing old pier, and dredging, at Algoma Harbor.

CLEANING DITCH, ETC.—Muscatine, Iowa.—Bids are asked until noon, March 2, by A. S. Lawrence, County Audr., for the cleaning and reopening of ditch in Drainage District No. 9. This work consists of the removal of about 2,000 cu. yds. of earth which has accumulated in bottom of this ditch, through about one mile of its course.

MODEL CITY.—Prince Rupert, B. C.—Brett & Hall, landscape architects, 31 Beacon St., Boston, Mass., have been awarded the commission to prepare general plans for the model city which the Grand Trunk Pacific Ry. will build at Prince Rupert. This city will be the Pacific terminus of this extensive transcontinental railroad system now in course of construction.

*GUIDE WALLS, PAVING, ETC.—Wheeling, W. Va.—Bids were received Jan. 25, by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing guide walls, grading, paving, etc., at Dam No. 13, Ohio River, as follows: James Skene & Sons, St. Louis, Mo., $198,144; the Hallerback & May Contract Co., Evansville, Ind., $147,350; Fisher, Riley & Carozza, Baltimore, Md., $175,082.

ROLLER COASTER.—Albany, N. Y.—Contract for constructing a large roller coaster at the pleasure park on Kinderhook Lake, known as "Electric Park," has been awarded to T. M. HARTON & CO., of Pittsburg, Pa. Cost, approximately $20,000. The work must be completed by May 30, 1908. The Albany & Hudson Railway Co. controls the park. Raymond H. Smith, Albany, is Gen. Mgr.

DREDGING.—Detroit, Mich.—Bids were received as follows on Jan. 16 by Col. Chas. E. L. B. Davis, Corps Engrs., U. S. A., for dredging Saginaw River, Mich.—(A) 159,900 cu. yds., Section A, scow measure; (B) 408,200 cu. yds., Section B, scow measure; (C) 123,000 cu. yds., Section A, bank measure; (D) 314,000 cu. yds., Section B, bank measure: Central Dredging Co., Cleveland, Ohio, (A) 16½ cts., (B) 22½ cts.; The Toledo Dredging Co., Toledo, Ohio, (A) 24 cts., (B) 23 cts., (C) 31 cts., (D) 28 cts.; James Rooney, Toledo, Ohio, (A) 20 cts.; Great Lakes Dredge & Dock Co., Chicago, Ill., (A) 38 cts.

BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. Public Works, Albany, until noon, Feb. 18, for completing the work embraced in Barge Canal Contract No. 17, left uncompleted by the cancellation of the contract held by the Scofield Company. The work embraced in the original contract was for the construction of the following structures on the Mohawk River: Dam 7, Lock 11, at Amsterdam, Sta. 2201 + 46; Dam 8, Lock 12, at Tribes Hill, Sta. 2443 + 17; and incidental work appertaining thereto. Length of contract within the limits of these locks and their approaches, 0.4 mile. Engineer's estimate, approximately $835,000.

VACUUM SYSTEM.—Providence, R. I.—Bids were received as follows on Jan. 18 at the office of the Supervising Architect, Treasury Dept., Washington, D. C., for installing a vacuum cleaning system in the U. S. postoffice, court-house and custom-house at Providence: Item (1) vacuum system complete; (2) add to above price for special union fittings on all pipe 2 ins. in diameter or smaller: Sanitary Devices Manufacturing Co., New York, N. Y., item (1) $3,610; (2) $2,200: time as specified. American Air Cleaning Co., Milwaukee, Wis., (1) $4,295; (2) $3,295; time as specified. Vacuum Cleaner Co., New York, N. Y., (1) $3,975; time as specified.

RIPRAP.—Grand Rapids, Mich.—Bids were received as follows on Jan. 15 by Maj. Chas. Keller, Corps Engrs., U. S. A., 57 Park St., Grand Rapids, for furnishing stone for pier filling and riprap at various harbors on eastern shore Lake Michigan—(A) Leathem & Smith Towing & Wrecking Co., Sturgeon Bay, Wis.; (B) Burk, Smith & Nelson, Muskegon, Mich.; (C) the Green Stone & Quarry Co., Sawyer, Wis.; (D) the Great Lakes Dredge & Dock Co., Chicago, Ill.: At St. Joseph Harbor, Mich., (D) $4,056; South Haven, (D) $4,252; Saugatuck, $6,000; Holland, (A) $1,371; (B) $2,752; Grand Haven, (C) $14,505; (D) $16,444; White Lake, (D) $4,213; Pentwater, $7,462; Ludington, (D) $1,600; Manistee, (D) $1,540; Portage Lake, (A) $4,483; (B) $4,931; (D) 9,480; Frankfort, (A) $1,868; (B) $2,007; (D) $4,626; Charlevoix, (A) $2,243; (B) $2,243; (D) $4,781.

FIRE-BREAKS.—San Bernardino, Cal.—Contracts have been let by the United States Forestry Service for the construction of 23 miles of fire-breaks in the San Bernardino forest reserve. The HIGHWAY CONSTRUCTION CO., of Redlands, Cal., has the contract. These fire-breaks will extend from Cajon Pass eastward to the Yucaipe Valley, and are the result of the work accomplished by the Tri-Counties Reforestation Association, which embraces the counties of San Bernardino, Riverside and Orange. The fire-breaks are to be constructed under the direction of R. H. Charlton, Supervisor of the Government Forestry Service, Los Angeles. A new telephone line, 45 miles in length, is also just being started by the forestry service. The work in this will be done by the forest rangers. The line will extend from Cajon station to Arrowhead, up to Skylands and along the range to Fredalba.

TUNNEL.—Boston, Mass.—Storey, Thorndike, Palmer & Thayer, lawyers, 735 Exchange Bldg., Boston, representing the Boston & Eastern Elec. R. R. Co., have filed a petition with the State Board of Railroad Commissioners to fix a date for hearings on the new plan of the company to construct its railroad directly into Boston by means of a tunnel beneath the harbor from East Boston to Post Office Sq., Boston. The estimated cost of constructing the railroad, according to the new plans, with the tunnel is $10,973,208, or approximately $2,200,000 more than by the former plans, this being practically the cost of the tunnel beneath the harbor. Itemized the cost is estimated as follows:

Right-of-way—real estate, $1,444,323; constructing and engineering—grading, surfacing, tunneling, etc., $1,241,490; side and retaining walls, $516,554; ballasting with stone, $207,000; crossing over other railroads, $328,100; crossings at streets and ways, $853,575; crossing over waterways, $265,150; tracks and track equipment, $334,620; signaling system, $100,000; stations (exclusive of terminal), $108,000; seeding, sodding and fencing, $32,750; generating stations, $800,000; power distributing system, $340,000; substations, $300,000; cars and car equipment, $842,500; car houses and repair shops, $120,000; harbor tunnel, subway and terminal, $2,190,000; engineering, interest and miscellaneous $1,049,000; total estimated cost, $10,973,208.

John H. Bickford, Engr., 110 State St., explains that "this estimate is based on a two-track road from Post Office Sq., Boston, to Wallis St., Beverly, and from Revere St., Revere, to the Revere Beach loop; and a single-track road from Main St., Peabody, to Danvers Sq., and from Clinton St., Chelsea, to the Revere Beach parkway, Chelsea. The reason for the difference between this estimate and the one filed on May 20, 1907, is the change in the route from a line back of Powder Horn hill, terminating at Sullivan Sq., Boston, to a line through the East Boston flats, under the harbor in a tunnel, terminating at Post Office Sq., Boston. The new route from Beverly to Post Office Sq. is about one-half mile longer than the old route to Sullivan Sq." No date has as yet been assigned by the commission for the hearing which the petitioners ask for, but it will be taken up soon. For further details see under Electric Railways, issue of Jan. 16.

PAVING BRICK.—Detroit, Mich.—Bids were received on Jan. 17 by the Department of Public Works, J. J. Haarer, Comr., for furnishing and delivering 1,000,000 paving brick. The bids were as follows—(x) Trade name of block bid upon; Specification A—(a) delivered on siding, f. o. b. cars, per M.; (b) guaranteed cost per sq. yd. Specification B—(c) delivered on street, without guaranty, per M.; (d) guaranteed cost per sq. yd. Specification C—(e) delivered on street, with 3-yr. guaranty, per M.; (f) guaranteed cost per sq. yd.; (g) guaranteed number of brick per sq. yd.:

Massillon Stone & Fire Brick Co., Massillon, Ohio, (x) "Hipp's Massillon"; (a) $19.85; (b) 79.4 cts.; (c) $21.35; (d) 85.4 cts.; (e) $21.35; (f) 85.4 cts.; (g) 40.

Collinwood D. D. Co., Collinwood, Ohio, (x) "Collinwood"; (a) $19.50; (b) 79 cts.; (c) $21.10; (d) 85.5 cts.; (e) $21.10; (f) 85.5 cts.; (g) 40½. (x) "D. & D."; (a) $19.50; (b) 78 cts.; (c) $21.10; (d) 84.5 cts.; (e) $21.10; (f) 84.5 cts.; (g) 40.

Malvern Clay Co., Malvern, Ohio, (x) "Medal Block"; (a) $19.75; (b) 79 cts.; (c) $21.25; (d) 85 cts.; (e) $21.25; (f) 85 cts.; (g) 40.

Saginaw Paving Brick Co., Saginaw, Mich., (x) "Saginaw Block"; (a) $18.75; (b) 78.75 cts.; (c) $20.60; (d) 86.32 cts.; (e) $20.80; (f) 87.36 cts.; (g) 42.

Logan Brick Mfg. Co., Logan, Ohio, (x) "Logan Block"; (a) $20.75; (b) 78.85 cts.; (c) $22.75; (d) 86.45 cts.; (e) $23.75; (f) 90.25 cts.; (g) 38.

F. B. Holmes & Co., Massillon, Ohio, (x) "Massillon Block"; (a) $19; (b) 77.9 cts.; (c) $20.60; (d) 84.46 cts.; (e) $20.60; (f) 84.46 cts.; (g) 41. (x) "Wooster Block"; (a) $20; (b) 78 cts.; (c) $21.60; (d) 84.24 cts.; (e) $21.60; (f) 84.24 cts.; (g) 39.

Townsend Brick & Contracting Co., Zanesville, Ohio, (x) "Townsend Block"; (a) $18.50; (b) 81.4 cts.; (c) $20; (d) 88 cts.; (e) $21; (f) 92.4 cts.; (g) 44.

F. B. Stevens, Nelsonville, Ohio, (x) "Nelsonville"; (a) $20.25; (b) 83 cts.; (c) $21,76; (d) 89 cts.; (e) $22.80; (f) 93.50 cts.; (g) 41. (x) "Big Four"; (a) $19.50; (b) 78 cts.; (c) $21; (d) 84 cts.; (e) $22; (f) 88 cts.; (g) 40.

Wassall Clay Co., Gloucester, Ohio, (x) "Wassall Block"; (a) $19.50; (b) 78 cts.; (c) $21.75; (d) 87 cts.; (e) $22.75; (f) 91 cts.; (g) 40.

Metropolitan Paving Brick Co., Canton, Ohio, (x) "Metropolitan Block"; (a) $21.50; (b) 86.1 cts.; (c) $23.10; (d) 94.1 cts.; (e) $23.60; (f) 96.7 cts.; (g) 41. (x) "Canton Block"; (a) $19.15; (b) 78.5 cts.; (c) $20.75; (d) 85 cts.; (e) $21.25; (f) 87 cts.; (g) 41. (x) "Minerva Block"; (a) $19.25; (b) 77 cts.; (c) $20.85; (d) 83.4 cts.; (e) $21.35; (f) 85.4 cts.; (g) 40.

U. S. POSSESSIONS AND CUBA.

*BREAKWATER.—Hawaii, T. H.—Bids are asked until noon, March 31, by Capt. C. W. Otwell, Corps Engrs., U. S. A., for constructing a breakwater or for stone for breakwater at Hile Harbor, Hawaii.

PIPE.—Panama.—The Isthmian Canal Commission, Washington, has awarded to the YOUNGSTOWN SHEET & TUBE CO., Youngstown, Ohio, contract for furnishing 100,000 ft. of 3 and 4-in. galvanized-iron pipe, at $30,025.

*CABLEWAY. — Panama. — The Isthmian Canal Commission, Purchasing Dept., Washington, D. C., has postponed from Feb. 3 to 10.30 a. m., Feb. 18, the opening of bids on one cable railway and two duplex cableways, under Circular 414, to be used in the construction of the locks at Gatun.

*LIGHT STATION.—Alaska.—One bid only was received by the Lighthouse Engineer, Portland, Ore., on Jan. 14 for material, erection and construction of Hinchinbrook entrance light station, Alaska. It was submitted by Fastaband, Palmberg & Hableck, Astoria, Ore., and was $105,000.

LUMBER.—Panama.—Bids are asked until 10.30 a. m., Feb. 13, at the office of the General Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing piles and lumber, as follows, under Circular 419; 3,200 untreated piles, 35-ft. to 60-ft.; about 1,000,000 ft. B. M., of piece lumber in various sizes.

ROCK DRILLS.—Panama.—The General Purchasing Officer, Isthmian Canal Comn., Washington, D. C., has awarded to the INGERSOLL-RAND CO., 11 Broadway, New York, contract for furnishing rock drills and nine A-50 drills, with necessary spare and repair parts and steam hose, at a total of $[illegible] f. o. b. armored

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Feb. 10, by the General Purchasing Officer, Isthmian Canal Comn., Washington, for furnishing engineering supplies, as follows, under Circular 416: 1,050 cast-iron 220 steel axles and 20 steel axles for 5-ft. gage; twelve air hoists for 5,000 plow steel wire cable, two lathes; plates, calipers, tube expanders, drills, drill holders, taps, chucks, blacksmith's tools, pipe and fittings, valves, etc.

PIPE.—Panama.—Bids were received as follows Jan. 24 at the Isthmian Canal Commission, Washington, D. C., for pipe as follows: Class 1, galvanized wrought-iron pipe, [illegible] ft. galvanized black wrought-iron pipe; [illegible] 45,000 ft. extra-strong wrought-iron pipe, [illegible] of various sizes: Bridgeman Bros. Co., Philadelphia, (1) $33,202; 40 days. Central Supply Co., Baltimore, Md., (1) $10,040; 60 days. Cornell & Co., New York, (1) $32,831; (2) $10,430; 50 days; (2) 15 days. Cuyler & Mobler, Baltimore, Md., (1) $33,046; [illegible] $8,436; 60 days. E. F. Kent, New York, (1) $33,554; 60 days; (2) [illegible] 30 days. Pancoast, Rogers & Co., New York, (1) $30,500; 60 days; (2) $5,599; time stated. United States Export Co., New York, (1) $[illegible] 995; 100 days; alternates on [illegible] no (2) $10,344; (2) $8,572; 70 days. Youngstown Sheet & Tube Co., Youngstown, Ohio, (1) $28,946; (2) $9,205; 50 days.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at —. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul personally, letters are forwarded to him unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

RAILWAY EQUIPMENT.—Roumania.—The Government will allot to the State Railways the sum of 50,000,000 francs (about $10,000,000) for the purchase of rolling stock, the construction of new sidings and various other work.

TRAMWAYS.—Russia.—The Municipality of St. Petersburg has passed a resolution granting to the Tramways Committee a sum of 2,067,000 roubles (about $1,067,000), for the purchase of 57 new cars (motor), 108 ordinary cars (attachable), and 50 new cars (attachable) for the municipal tramways.

RAILWAYS.—Russia.—It is planned to spend approximately $30,000,000 for railway construction, providing for the Tiumen-Omsk Railway, double-tracking the Siberian Railway and for building the eastern portion of the Sretensk-Pokrovsky branch of the Amour Railway. Among lines already commenced on which construction is to be continued are the southern portion of the Orenburg-Tashkent Railway, the Perm-Ekaterinburg Railway and the western portion of the Sretensk-Pokrovsky line.

ICE-MAKING MACHINERY.—An American consul in the Far East reports that a company is planning to establish an ice-manufacturing plant in that locality. No definite plans have yet been adopted, but it is said that it is proposed to spend about $75,000 on the undertaking. The consul furnishes the address to which manufacturers of ice-making machinery should send communications. (Inquiries in which addresses are omitted are on file at Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C. In applying for address for the above item, refer to file No. 1791.)

RAILWAY AND HOTEL.—Cape Colony.—Bids are asked by the Council of the Cape Town Corporation until noon, March 31, for both or either of the following projects: (a) the construction and working of a railway up Table Mountain; (b) the erection and operation of a suitable hotel at the termination of the railway. Council is prepared to consider a proposed concession for a term of approximately 25 years. Particulars and conditions, so far as they are available, may be obtained at the office of the Town Clerk, and such plans of the mountain as are in the possession of the Council may be inspected at the office of the City Engineer, Cape Town.

WOODEN PAVING BLOCKS.—The Daily Consular and Trade Reports, Dept. Commerce and Labor, states that "one of the American Consuls in Southern Europe announces that the municipal government of the city in question is in the market for wooden paving blocks, 2½ × 3 15-16 × 8¾ ins. These blocks must be of the hardest and most durable wood and be able to stand all conditions of weather without rotting or warping. A further description of these blocks may be had of the Bureau of Manufactures, Dept. Commerce and Labor, and samples in conformity with prices and terms should be sent immediately. The Consul states that there is a special opportunity for the sale of these blocks if American dealers or manufacturers will act without delay. (Refer to file No. 1,852.)

PUBLIC WORKS.—Algeria.—A bill has been introduced into the French Chamber authorizing the Government of Algeria to contract a loan of 170,354,759 francs (about $34,070,900) for various public works. From the preamble to the bill it appears that in 1902 the Assemblées financières d'Algérie desired to raise a loan of 100,000,000 francs, of

which 50,000,000 francs were to be expended on railways. Parliament limited the loan to 50,000,000 francs, postponing to a future date the question of the loan for railways. The present project has for its object the realization of the programme of 1902 by completing the works begun with the old loan (hydraulic and ports works, etc.), and by the development of the railway system by the construction of 941 kilometers of new lines and improvement of existing ones.

RAILWAYS—India.—The Secretary of State for India has sanctioned the construction by the Bengal & Northwestern Railway Co. of a branch line from Madho Singh Station on the Benares-Allahabad Railway to the northern bank of the Ganges River opposite Mirzapore, a length of 10.3 miles; the following surveys are also sanctioned, to be carried out through the agency of the Oudh & Rohilkhand Railway administration for lines of railway: (1) From Phaphamau to Rae Bareli via Mustafad; (2) from Mustafad to Unap or Cawnpore Bridge; (3) a link from Rae Bareli to Dalmon. The aggregate length of the lines to be surveyed is about 149 miles. A new extension of the Eastern Bengal State Railway, which has been surveyed, is the Phulbari-Surrijhia branch in the province of Eastern Bengal and Assam. It is a small project and is estimated to cost $147,223 for construction on the 3-ft. 3⅜-in. gage for a length of 13.48 miles.

Among railway projects in the Punjab which have been initiated by private enterprise is the Rawalpindi-Murree Railway, which has been reconnoitered by the promoters. The project is for an electric railway on the 2½-ft. gage for a length of 32 miles, the estimated cost of the undertaking being $1,496,000.

The Railway Board has sanctioned a detailed survey by the agency of the Bengal Nagpur Co. for a broad-gage line of railway from Amda to Gurumasini via Chaibassa, a distance of 48 miles. A new railway project for central India and the central provinces which is being reconnoitered is the Pir-Bhopal Railway, which will connect with the Great Indian Peninsula Railway system. The line, which will be on the 5½-ft. gage, will have a length of 110 miles and has been proposed as an alternative to the doubling of the section from Itarsi to Bhopal.

In Burma a new railway, for which a detailed survey is in progress, is the Bhamo-Momeln (Tengyneh) line, which will serve the inland trade of the province with China. The line, which has already been reconnoitered, will be on the 2½-ft. gage, and have a length of 124 miles, and its estimated cost is $2,814,000. Wm. H. Michael is U. S. Consul General at Calcutta.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

RAISING LOCK.—Louisa, Ky.—Bids were received by Lieut.-Col. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, Ohio, on Jan. 20, for raising crest of Lock and Dam 3, Big Sandy River, near Louisa, Ky. In detail they were as follows: (A) the Midland Bridge Co., Kansas City, Mo.; (B) the Dravo Contracting Co., Pittsburg, Pa.; (C) J. C. Thomas, Louisa, Ky.; (D) Morris, Turner & Co., Roanoke, Va.; (E) the Penn Bridge Co., Beaver Falls, Pa.

	(A)	(B)	(C)	(D)	(E)
1,500 cu. yds. excavation	$10.00	$2.00	$1.00	$1.50	$0.54
500 cu. yds. embankment	.75	1.00	1.00	.50	.80
1,900 cu. yds. concrete	13.00	9.00	4.00	7.00	7.45
1,000 tons riprap	3.50	3.50	2.00	2.00	1.70
700 sq. yds. paving	2.00	4.25	3.00	3.00	1.70
500 lin. ft. bolt holes	.60	1.00	1.00	.75	.60
Removal of weir sill, lump sum	5,000.00	2,000.00	600.00	3,500.00	300.00
Removal of lock gates, lump sum	3,000.00	2,000.00	600.00	500.00	940.00
Placing pass trestles, lump sum	5,000.00	2,000.00	3,000.00	1,000.00	480.00
2,000 bbls. cement	2.50	2.50	1.50	2.25	2.30
50,000 M. ft. B. M. timber	50.00	120.00	100.00	60.00	60.00
3,000 M. ft. B. M. lumber	150.00	120.00	100.00	140.00	100.00
4,000 lin. ft. piling	.90	1.00	.75	.50	.40
5 lin. ft. gages	5.00	5.00	4.00	10.00	3.50
400,000 lbs. iron and steel	.14	.13	.081	.15	.077
100 hours skilled labor	.75	.75	.50	.50	.70
700 hours unskilled labor	.30	.50	.30	.30	.60
Total	$126,135	$101,385	$62,380	$95,505	$66,282

*MARGINAL CONDUIT.—Boston, Mass.—Bids were received on Jan. 20 (an extension of time from Jan. 6), by the Charles River Basin Commission, 367 Boylston St., for building Section 6 of the Boston Marginal conduit and Section 4 of the Boston embankment (contract No 81). Itemized bids were as follows: (A) Jones & Meehan, 10 Tremont St.; (B) W. H. Ellis, 17 Milk St.; (C) Coleman Bros., 15 Court Sq.; (D) William L. Miller, 19 Milk St.; (E) Cavanagh Bros., 471 Dorchester Ave.; (F) Charles R. Gow Co., 79 Milk St.

	(A)	(B)	(C)	(D)	(E)	(F)
Cofferdam at Fens Pond bridge	$3,500.00	$2,500.00	$4,000.00	$5,500.00	$8,000.00	$6,000.00
Cofferdam at gate chamber	5,500.00	3,500.00	10,000.00	7,000.00	16,000.00	15,000.00
Cofferdam at Boston marginal conduit	3,900.00	2,500.00	7,300.00	7,000.00	9,000.00	5,500.00
12,000 cu. yds. earth filling, Class A (ordinary earth)	.40	.50	.40	.45	.50	.65
620 cu. yds. earth filling, Class B (clean earth)	.50	.60	.60	.55	.75	.65
5,300 cu. yds. earth filling, Class C (sand and gravel)	.60	.96	.60	.75	1.00	1.00
250 cu. yds. earth excavation inside the cofferdams	2.00	2.00	2.00	1.00	5.00	2.50
34,000 lin. ft. piles in place (45 ft. or less in length)	.20	.20	.20	.18	.25	.31
2,000 lin. ft. piles in place (over 45 ft. in length)	.25	.25	.25	.25	.30	.25
6,100 lin. ft. driving piles at an inclination (additional price)	.03	.05	.05	.03	.10	.03½
175 lin. ft. drains	.80	1.00	1.00	.80	2.00	2.50
1,700 cu. yds. concrete masonry (1:2½:4½ in conduits and gate chamber)	10.00	12.00	13.00	14.50	14.00	16.00
720 cu. yds. concrete masonry (1:2½:4½ in wall and bridge)	10.00	15.00	11.00	10.00	12.50	13.50
117 sq. yds. granolithic surfacing	2.00	8.00	1.50	1.50	2.00	1.50
65 cu. yds. Ashlar masonry, except for copings	20.00	17.80	20.00	30.00	10.00	20.00
95 cu. yds. Ashlar masonry for coping	30.00	34.00	35.00	35.00	12.00	30.00
80 cu. yds. dimension stone masonry	30.00	30.00	50.00	40.00	8.00	50.00
4,500 sq. ft. face dressing of pointed work	.50	.70	.50	.60	.20	.60
440 tons riprap	3.00	2.00	2.00	3.00	3.00	2.50
28.5 tons iron and other metal work	25.00	25.00	30.00	40.00	75.00	20.00
3 M. ft. B. M. timber attached to masonry	25.00	25.00	25.00	50.00	75.00	50.00
Temporary outlet from Stony Brook conduits	3,800.00	2,000.00	3,000.00	4,000.00	4,000.00	3,000.00
Totals	$69,054	$74,760	$84,592	$87,054	$100,961	$106,044

CIVIL SERVICE EXAMINATIONS.

ELECTROTYPE FINISHER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 5, to secure eligibles to fill vacancies as they may occur in the position of electrotype finisher (male), in the Government Printing Office, Washington, D. C., at $4 a day. Age limit, 21 years. Application Form, 1093.

SCIENTIFIC ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission will hold an examination on Feb. 5, to secure eligibles to fill a vacancy in the position of scientific assistant, $720 a year, in the Bureau of Fisheries, and vacancies requiring similar qualifications as they may occur. Men only will be admitted to this examination. Age limit, 20 years. Application form, 1312.

TOPOGRAPHIC AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 5-6, to secure eligibles to fill vacancies as they may occur in the position of topographic aid, in the Geological Survey, at salaries ranging from $840 to $1,200 a year, depending upon the experience and ability of the applicant, and in other branches of the service. Age limit, 20 to 30 years. Application form, 1312.

LOCAL AND ASSISTANT INSPECTOR OF HULLS.—New Orleans, La.—An examination will be held by the U. S. Civil Service Commission on Feb. 5-6, to secure eligibles to fill a vacancy in the position of assistant inspector of hulls of steam vessels, New Orleans, La., $1,800 a year, and vacancies requiring similar qualifications as they may occur in the Steamboat Inspection Service throughout the United States. Age limit, 25 to 55 years. Application forms, 1087 and 1405.

ENGINEERS, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations Feb. 15, for the following positions: Assistant electrical engineer, $600 to $900 and maintenance; assistant steam engineer, New York County Jail, $840; bridge draftsman, $1,200 to $1,500; chemist, Department of Agriculture, $1,200; instructor in masonry and bricklaying, State Institutions, $780 to $900 and maintenance. The last day for filing applications for these examinations is Feb. 8. Charles S. Fowler is Ch. Examiner.

NAUTICAL EXPERT.—Washington, D. C.—An examination is announced by the U. S. Civil Service Commission on Feb. 5, to secure eligibles to fill a vacancy in the position of nautical expert, $1,000 a year, in the Hydrographic Office, Bureau of Equipment, Navy Dept., and vacancies requiring similar qualifications as they may occur in that office. As the Commission has experienced considerable difficulty in securing eligibles for this position, qualified persons are urged to enter this examination. At the request of the Department, applications will not be accepted from persons who have not attended for at least two years a nautical school of no less a grade than the schools maintained upon the scholarships of the States of Massachusetts, New York, and Pennsylvania, or who have not served for at least three years on board vessels navigating either the Great Lakes or the ocean. Age limit, 20 years. Application form, 1312.

INDUSTRIAL NOTES.

The fourth annual convention of the National Association of Cement Users was held at the old 65th Regiment Armory, Buffalo, N. Y., on Jan. 20-25, 1908. The exhibitors were:

CEMENT MANUFACTURERS.

American Cement Co., Philadelphia.
Assn. American Portland Cement Manufacturers, Philadelphia.
Atlas Portland Cement Co., New York City.
Berkshire White Portland Cement Co., New York City.
Blanc Stainless Cement Co., New York City.
Edison Portland Cement Co., New York City.
Lehigh Portland Cement Co., Allentown, Pa.
Pennsylvania Cement Co., New York City.
Sandusky Portland Cement Co., Sandusky, O.
Universal Portland Cement Co., Pittsburg.
Vulcanite Portland Cement Co., New York City.
Whitehall Portland Cement Co., Philadelphia.

REINFORCED CONCRETE FIRMS.

American Steel & Wire Co., Chicago.
American System of Reinforcing, Chicago.
Ashland Steel Range & Mfg. Co., Ashland, O.
Blaw Collapsible Steel Centering Co., Pittsburg.
Buffalo Steel Co., Tonawanda, N. Y.
Expanded Metal & Corrugated Bar Co., St. Louis, Mo.
General Fireproofing Co., Youngstown, O.
Northwestern Expanded Metal Co., Chicago.
Trussed Concrete Steel Co., Detroit.
Turner Construction Co., New York City.

CONCRETE BLOCKS AND CEMENT MACHINERY.

Anchor Concrete Stone Co., Rock Rapids, Iowa.
Louis Auer & Son, Milwaukee.
Automatic Level Co., Toledo, O.
Ballou Mfg. Co., Belding, Mich.
Besser Mfg. Co., Alpena, Mich.
Brock Bros., St. Louis, Mo.
Buffalo Burial Vault Co., Buffalo, N. Y.
Buffalo Concrete Mixer Co., Buffalo, N. Y.
Burrell Mfg. Co., Bradley, Ill.
California Artificial Stone Supply Co., Toronto, Ont.
Cement Machinery Co., Jackson, Mich.
Cement Tile Machinery Co., Waterloo, Ia.
Century Cement Machinery Co., Rochester, N. Y.
Chase Foundry & Mfg. Co., Columbus, O.
Clover Leaf Machine Co., South Bend, Ind.
Chicago Concrete Machinery Co., Chicago, Ill.
Concrete Space Mfg. Co., Chicago, Ill.
Concrete Stone & Sand Co., Youngstown, Ohio.
The D. & A. Post Mold Co., Three Rivers, Mich.
Diamond Cement Machinery Co., Toledo, O.
Dyer Molding Machinery Co., Chicago, Ill.
Eureka Machine Co., Lansing, Mich.
Fillmore Machine Co., Fillmore, N. Y.
Fisher Hydraulic Stone Machine Co., Baltimore, Md.
J. B. Foote Foundry Co., Fredericktown, O.
Francisco Block Machine Co., Columbus, O.
Hartwick Machinery Co., Jackson, Mich.
Hayden Automatic Block Machine Co., Columbus, O.
Hickson's Sewer Mold Co., Mt. Gilead, O.
Hydraulic Concrete Machine Co., Buffalo, N. Y.
Ideal Concrete Machinery Co., South Bend, Ind.
International Brick Machine Co., Binghamton, N. Y.
International Fence & Fireproofing Co., Columbus, O.
International Harvester Co., Buffalo, N. Y.
Iroquois Iron Works, Buffalo, N. Y.
Kent Machine Co., Kent, O.
Kerlin Automatic Post Machine Co., Delphi, Ind.
Knickerbocker Co., Jackson, Wis.
Koehring Machine Co., Milwaukee, Wis.
Kramer Automatic Tamper Co., Peoria, Ill.
Lansing Wheelbarrow Co., Lansing, Mich.
Lumen Bearing Co., Buffalo, N. Y.
Miracle Pressed Stone Co., Minneapolis, Minn.
Multiplex Concrete Block Machine Co., Toledo, O.
New Way Motor Co., Lansing, Mich.
Orangsby Motor Gage.
Parker Hoisting Machine Co., Chicago, Ill.
Peerless Brick Machine Co., Minneapolis, Minn.
Perfection Block Machine Co., Minneapolis, Minn.
Queen City Brick Machine Co., Traverse City, Mich.
Raber-Woiltrout Lang Mfg. Co., Kendallville, Ind.
Runyon Concrete Machinery Co., Canal Dover, O.
Simpson Cement Mold Co., Columbus, O.
R. Z. Snell Mfg. Co., South Bend, Ind.
Somers Bros., Urbana, Ill.
Star Cement Block Machine Co., Dallas City, Ill.
Sterling Wheelbarrow Co., Milwaukee, Wis.
Soenson-Shuman Machinery Co., Pittsburg, Pa.
Thomas Cement Construction Co., Joliet, Ill.
Thompson Cement Stone Co., Gowanda, N. Y.
Twentieth Century Tile Roofing Co., Rochester, Mich.
United Cement Machinery Co., Plain City, Ohio.

WATERPROOFING.

Aquabar Co., New York, N. Y.
Barrett Mfg. Co., New York, N. Y.
A. C. Horn Co., New York.
National Roofing Co., Tonawanda, N. Y.
Standard Asphalt Rubber Co., Chicago, Ill.
Toch Bros., New York.

MISCELLANEOUS EXHIBITS.

H. H. Armstrong, Rochester, N. Y.
Smead C. Crafts, Coldwater, Mich.
Chas. Dietrichs (wall form clamp), Little Ferry, N. J.
Foote Mfg. Co., Nunda, N. Y.
Garden City Sand Co., Chicago.
J. S. Hodges, Fife Lake, Mich.
F. M. Jackson, Akron, N. Y.
Geo. B. Johonnat, Buffalo.
P. H. Learner, Elwood, Ind.
Dr. Chas. F. McKenna (testing laboratory), New York City.
P. B. Miles Mfg. Co., Jackson, Mich.
N. C. Newerf, Buffalo.
A. J. Ralph & Co., Indianapolis, Ind.
Ray Mfg. Co., Philadelphia.
Sanford & Painter Co., Toledo, O.
Standard Paving Co., Newark, N. J.
Wadsworth & Howland Co., Inc., Boston.
Wettlaufer Bros., Buffalo.
Chas. E. Zimmerman, Syracuse.

TRADE PUBLICATIONS.

BOILER FITTINGS.—Scully Iron & Steel Co., Halstead and Fulton Sts., Chicago, Ill. January and February Stock List. Paper; 4½ × 7 ins.; pp. 144; illustrated.

This price list includes steel and iron plates, heads, tubes, rivets, braces, flanges, staybolts and other boiler makers' material, bars and angles and large and small tools.

CONCRETE BLOCK CONSTRUCTION.—Thomas Cement Construction Co., Joliet, Ill. Paper; 4 × 6½ ins.; pp. 6; illustrated.

In the Thomas system, hollow walls are built of two rows of interlocking blocks. The blocks are made with a troweled surface, which is claimed to improve the waterproof quality of the concrete.

ALTERNATING CURRENT FANS.—The Emerson Mfg. Co., St. Louis, Mo. Paper; 5½ × 7¾ ins.; pp. 58; illustrated.

These are various designs of desk and ceiling fans operated by alternating-current induction motors. Also larger exhaust fans for ventilating purposes. These last may be operated by alternating-current or direct-current motors.

MINING MACHINERY.—The Allis-Chalmers Co., Milwaukee, Wis. Bulletins 1403 and 1418. Paper; 8 × 10½ ins.; pp. 12, each; illustrated.

Bulletin 1403 describes the construction and use of a jig for concentrating low grade ores first devised by Mr. H. R. Hancock for South Australian mines.

Bulletin 1418 the methods of construction adopted for large steel mine ventilating fans of diameters from 12 to 35 ft.

ELEVATING AND CONVEYING MACHINERY.—Geo. F. Westcott Co., Buffalo, N. Y. Paper; 4¾ × 8 ins.; pp. 48; illustrated.

This publication, called "The Labor Saver," is intended for regular quarterly publication and issues may be secured on request. In addition to the expected material on elevating and conveying machinery the book contains tables of weights and properties of materials, and a little abbreviated information on steam, hydraulic and electrical power.

PAINTS FOR METAL.—The Review of Technical Paints for Metal. By Frank P. Cheesman. 7th Edition. National Paint Works, Williamsport, Pa. 6 × 9 ins.; pp. 47; illustrated.

The last edition of this well-known pamphlet has been revised and brought down to very recent date, so that the latest developments in the theory of paint are included. It is an admirable exposition of the requirements of a good paint together with descriptions of the varieties made by the company publishing the book.

DUMP WAGONS.—Black Mfg. Co., 124 E. Ohio St., Chicago. Paper; 12¼ × 9½ ins.; pp. 24; illustrated.

The "Chicago Quick Dumper" wagon has the bottom formed by steel-faced doors which are hinged under the middle of the body, the hinges being protected by a ∧ formed of a longitudinal steel angle which also serves as a deflector. Fixed ends or drop end-gates may be used. The wagons are made in sizes of 1 to 5 cu. yds. capacity. The advantages and special features are described, and special details of construction are illustrated.

TESTING LARGE ALTERNATORS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin 1037. Paper; 8 × 10½ ins.; pp. 12; illustrated.

This bulletin is a reprint of a paper presented by B. A. Behrend, Chief Electrical Engineer of the Allis-Chalmers Co., to the International Electric Congress at St. Louis, 1904. The method of testing outlined was perfected by the author and enables full load losses to be put on the larger machines without the necessity of having a full load actually carried.

ENGINEERS AND CONTRACTORS.—The Osborn Engineering Co., Osborn Bldg., Cleveland, Ohio. Boards; 11½ × 9½ ins.; pp. 156; illustrated.

Rarely have we seen so pretentious a volume issued by any engineering firm describing the work which they have done or are prepared to do. The Osborn Engineering Co., according to the title page of this book are "Civil, mechanical and architectural engineers; designers of manufacturing and power plants, bridges and buildings; steam and eletrical railway engineering; inspection bureau for structural steel, railway equipment, water-works supplies and cement."

RAILROAD SIGNALING. UNION PACIFIC RAILROAD.—8 × 5 ins.; pp. 39; illustrated in colors.

This very handsome little pamphlet gives an elementary description of block signaling and interlocking as now carried out on the "U. P." We presume that many engineers not familiar with the intricacies of signal engineering would gain information from the book. The colored illustrations, showing signals in position at various points on the Union Pacific, are very creditable pieces of work. Incidentally, the statement is worth note that within a short time both the Union Pacific and the Southern Pacific will be thoroughly signaled all the way from Council Bluffs to San Francisco and Los Angeles.

SUB-SIDEWALK RAILWAY SYSTEM.—By J. H. Farrar, Room 29, 90 La Salle St., Chicago. Paper; 9 × 12 ins.; pp. 30; illustrated.

This pamphlet relates to a system patented by Mr. Farrar in which the space below the sidewalks would be utilized for a single-track railway with open (or roofless) cars and a continuous sidewalk. Beneath the railway would be an oval conduit for sewerage and at the sides brackets to carry pipes and electric cables. Much of the pamphlet is devoted to rather irrelevant matter concerning water waste, sewers, street cleaning, etc. The cost of construction and equipment of the railway is estimated at $300,749 per mile, of which the prismatic sidewalk covering the subway (at $102,000 per mile) forms the largest item.

CONCRETE REINFORCEMENT.—Northwestern Expanding Metal Co., 790 Old Colony Bldg., Chicago. Paper; 8¾ × 12 ins.; pp. 64; illustrated. Also smaller pamphlets.

The large pamphlet shows a variety of concrete structures in which expanded metal sheets are used as steel reinforcement. These include the columns, walls, floors and roofs of buildings; also fences, sewers, filter basins, tanks and foundations. Its use in docks, piers and foundations. Its use in fireproofing is also included. Large folding sheets show the details of steel reinforcement in floors, beams and columns. A pamphlet 11 × 7½ ins. shows the use of expanded metal in concrete bridges, culverts and sewers. Another, 9 × 6 ins., contains a description of the reinforced concrete building of the Halligan Coffee Co., at Davenport, Ia. A third, 5 × 7 ins., is devoted to expanded steel plastering lath.

ELECTRICAL APPARATUS.—General Electric Co., Schenectady, N. Y. Bulletins 4550 and 4551. Paper; 8 × 10½ ins.; pp. 36 and 16.

In Bulletin 4550 the latest types of circuit breakers made by this concern are described. Only the hand operated type is considered as motor solenoid or float operated-breakers have been considered to be special. Three forms, denoted as "G," "P," and "K," of this type, called "Type C" are shown. "Form G" is designed for a small, reliable, automatic, protective device for direct and alternating current systems at a moderate price. "Form P" is particularly adapted for use on railway and power systems which are frequently subjected to severe short circuits and heavy overload. This form is made up to 12,000-ampere capacity. "Form K," designed for heavy service, is particularly well suited for railway work. It is made in capacities up to 10,000 amperes. The bulletin also contains descriptions of auxiliary switches, automatic tripping devices, etc., to be used with these circuit breakers, and gives data as to capacities, prices and dimensions of the devices shown.

In Bulletin 4551 is illustrated a line of switchboard indicating instruments such as ammeters, voltmeters, single-phase wattmeters, frequency and power-factor indicators. This type of instrument shown is known as the "horizontal edgewise." Wattmeters, power factor and frequency indicators are constructed on a direct-reading dynamometer design; the ammeters and voltmeters on the inclined coil scheme. While designed for alternating current service it is stated that the voltmeters, ammeters and wattmeters can be used with good results on direct current.

or other Proposal Advertisements see pages 47, 48, of Advertisements and Construction News page 36.

CATHEDRAL.

St. Louis, Mo.

SEALED PROPOSALS will be received at the office of Barnett, Haynes & Barnett, Architects, Frisco Bldg., St. Louis, Mo., on the sixteenth day of March, 1908, for the construction of a church building to be known as the St. Louis Cathedral in accordance with drawings and specifications. Complete drawings and specifications will be sent by express to all parties desiring to submit estimates on the said building, upon receipt of Twenty dollars to cover actual cost of copies of drawings and specifications. The proposed letting to include only the superstructure of building, exclusive of interior finishing.

BRIDGE.

Richmond, Texas.

Sealed proposals will be received at the office of the County Judge, Richmond, Fort Bend County, Texas, until 2 P. M., Monday, February 17th, 1908, for the delivery and erection of a steel highway bridge across the Brazos River, near Rosenberg, Texas, at a point about one-half mile from railroad station.

Copies of the plans and specifications can be seen at the County Clerk's office, Richmond, Texas; "Engineering News" office, Chicago, Ill., or at my office, Houston, Texas, or a copy will be mailed direct to any one enclosing $10.00, said $10.00 to be returned to each firm or person making a bonafide bid on bridge with the plans attached.

East bid must be accompanied by a certified check for $1,000.00, payable to D. R. Pearson, and the successful bidder will be required to make a bond for $10,000.00.

Fort Bend County reserves the right to reject any and all bids.

JNO. W. MAXCY, C. E.,
Consulting Engineer,
Houston, Texas.

BOILER.

Asbury Park, N. J.

Sealed proposals, addressed to the Department of Water and Sewers, 711 Asbury Avenue, Asbury Park, N. J., will be received until 12 o'clock noon of Saturday, February 8, 1908, for the erection complete of one 200-HP. Internal Furnace Boiler.

Specifications mailed on request.

The city of Asbury Park reserves the right to reject any or all bids.

JOHN L. COFFIN,
Supt. Dept. of Water and Sewers.
January 28, 1908.

FIRE HYDRANTS.

Asbury Park, N. J.

Sealed proposals, addressed to the Department of Water and Sewers, 711 Asbury Avenue, Asbury Park, N. J., will be received until 12 o'clock noon of Saturday, February 15, 1908, for Ten Fire Hydrants.

Specifications mailed on request.

The right is reserved to reject any or all bids.

JOHN L. COFFIN,
Supt. Dept. of Water and Sewers.
January 28, 1908.

WEST POINT, N. Y., January 30, 1908.—Sealed proposals, in triplicate, will be received here until 12 o'clock, noon, February 20, 1908, for furnishing and installing Electric Light Fixtures in Gun Shed, Artillery Stable, Cavalry Stable, Artillery Barracks and Cavalry Barracks, as per drawings and specifications in this office. The United States reserves the right to accept or reject any or all proposals, or any part thereof. Forms for proposals furnished upon application. Addess QUARTERMASTER, West Point, N. Y.

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Wilmington, Del., until 11 o'clock A. M., Feb. 20, 1908, and then opened, for erecting concrete base, tower and walk at the Schooner Ledge Light-Station, Pa., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to the LIGHT-HOUSE ENGINEER, Wilmington, Del.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Jan. 27, 1908.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 8th day of March, 1908, and then opened, for the construction (complete except lift) of the extension to the U. S. Court House, Post Office, etc., at Rochester, New York, in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Custodian at Rochester, New York, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

U. S. ENGINEER OFFICE, Honolulu, T. H., Jan. 31, 1908.—Sealed proposals for construction of breakwater or for stone for breakwater construction at Hilo Harbor, Hawaii, T. H., will be received here until 12 M., March 31st, 1908, and then publicly opened. Information furnished on application to Chief Engineer, Pacific Division, 1840 Polk Street, San Francisco, Cal., or this office. C. W. OTWELL, Capt., Engrs.

U. S. ENGINEER OFFICE, Milwaukee, Wis., January 24, 1908.—Sealed proposals for building reinforced concrete caisson breakwater, pile pier, and plank cribs, removing old pier, and dredging, at Algoma Harbor, Wis., will be received here until 2 p. m., February 24, 1908, and then publicly opened. Information furnished on application. W. V. JUDSON, Major, Engrs.

Situations Wanted

Civil Engineers.

YOUNG ENGINEER (23) wants position with R. R., contractor or engineer. Two years' experience as transitman with M. of W. corps of leading R. R.; also experience with City Engineer. Good draftsman. Will work at anything. Would like to hear from some sewerage disposal Co. Will locate anywhere in U. S. Address "K. A. 5," Engineering News, New York. 5-1t

YOUNG ENGINEER, two years' experience on railroad work, two on harbor and lot subdivision work, desires position after Feb. 1. Address "E. A. 4," Engineering News, New York. 5-1t

Bridge and Structural Engineers.

MEXICO
A CONSTRUCTING ENGINEER

of broad experience, business training and good address, familiar with heavy construction and the tools and materials used, will leave March 1st, via St. Louis and Kansas City, for a thirty days' trip for recreation and study in the principal cities of Mexico, and will report intelligently on a limited number of inquiries, prospects or propositions in lines with which he is familiar. Satisfactory references. Compensation nominal. Address "R. A. 5," Engineering News, New York. 5-1t

Surveyors.

WANTED—Engineering job by young man who is a technical graduate, with several (7 or 8) months' experience as transitman. Can give best of references and will accept anything at the start. Am most familiar with railroad work, but know something of city engineering. Box 252, Talladega, Ala. 5-1t

SURVEYOR, with experience on topographic and extensive real estate surveys, desires position or contract work; experienced in tropics. Address "F. 2," Engineering News, New York. 5-12t

TECHNICAL STUDENT, class '08, desires position with railroad or engineer. Experience in running transit, chaining, plotting and fair draftsman. Address "L. A. 5," Engineering News, New York. 5-1t

Situations Open

YOUNG MAN, about 21, with technical education, as assistant to contracting engineer in New York. Salary about $50.00, with good chance for advancement. State full particulars. Address "P. A. 5," Engineering News, New York. 5-1t

WANTED—Boiler room foreman capable of running economically 4,000-HP. Climax boilers; preference given to one able and willing to take salary out of saving shown over present cost of operation. Permanent position to right man. Give age, education and experience. Address "I. A., 5," Engineering News, New York. 5-3t

WANTED—A thoroughly competent and experienced boiler inspector. One who has made inspections for boiler insurance companies preferred. Address "O. A. 5," Engineering News, New York. 5-1t

Miscellaneous Wants

WANTED—Established engineers, well connected and recommended, to act as agents for reinforced concrete construction and concrete products as water pipes, hollow concrete piles, transmission poles, &c., in Boston, New York and other large cities. Address "L. J. MENSCH," 42 Market Street, San Francisco. 5-2t

WANTED—1 air compressor about 100 ft.; 1 air compressor about 200 ft. (both steam driven); 1 8¼ × 10 D. C. D. D. hoist; 1 small single drum hoist; 1 boiler 60 to 100 HP.; smoke stack; 5,000-gal. tank. State condition and lowest cash price. Address "B. C. 5," Engineering News, New York. 5-1t

WANTED—Will pay $2.00 for 1 copy of Engineering News of June 15, 1874, at that time called the Engineer, Architect and Surveyor; and 25c. each for Jan. 1, July 23, 1903; Dec. 28, 1905; Feb. 22, Sept. 20, 1906; Feb. 7, Oct. 31, 1907. Cost of mailing allowed in addition if advertising pages are stripped therefrom. Address A. R. T., Engineering News, New York. tf

WANTED—Drafting, all classes; price reasonable. 1025 S. Queen St., York, Pa. 5-4t

WANTED
TO PURCHASE SOME
Double Drum Hoisting Engine
Enquire
CONNERS BROS. CO.,
5-1t Lowell, Mass.

REPRESENTATIVE

I am at present representing a well-established manufacturing business and am in daily contact with ENGINEERS and CONTRACTORS. I am desirous of handling another line in conjunction. I have every facility for handling another line to our mutual advantage. Best references exchanged. Address "T. A. 5," Engineering News, New York; 1636 Monadnock Block, Chicago, Ill. 5-1t

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